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HunterLab
Accessories Catalog

Published by Marketing Department, Reston, Virginia

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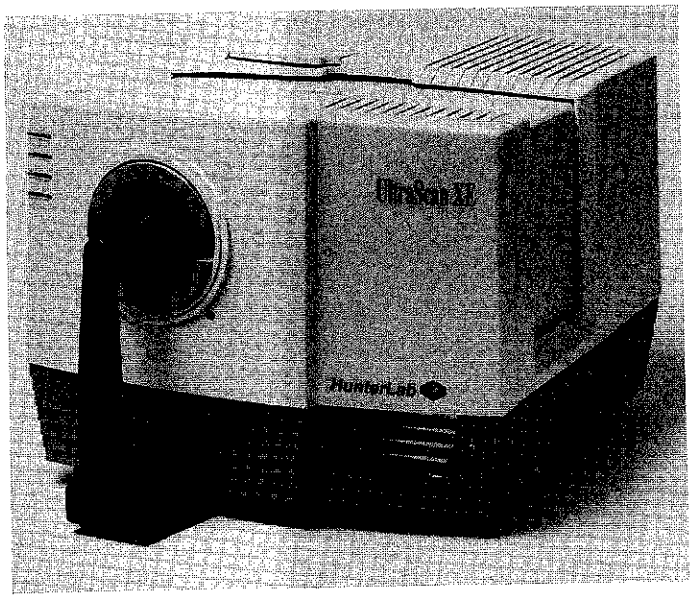
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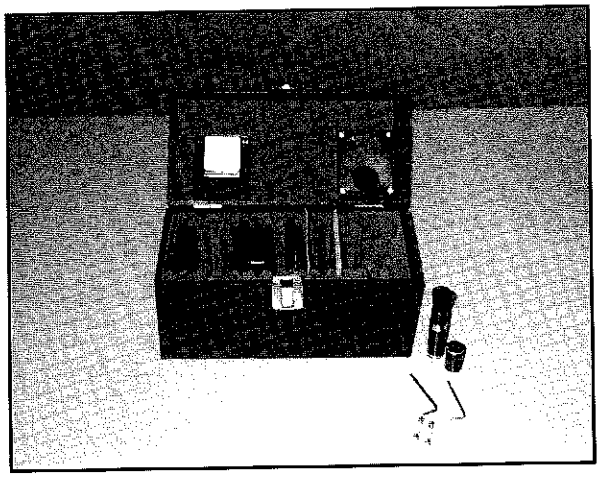
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UltraScan ™ XE



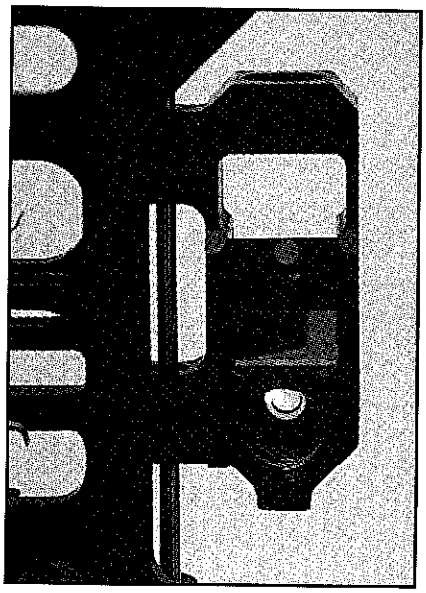


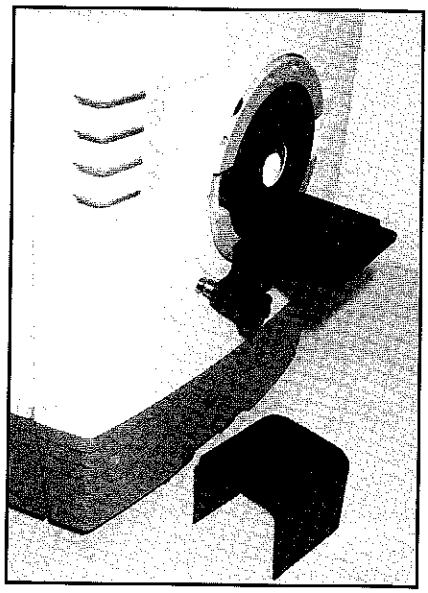
Calibration standards, standards care card, light trap, tool set, black card, sample clamp, spare fuses, lens brush, cables and manual are included as standard accessories.

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UltraScan XE Options and Accessories

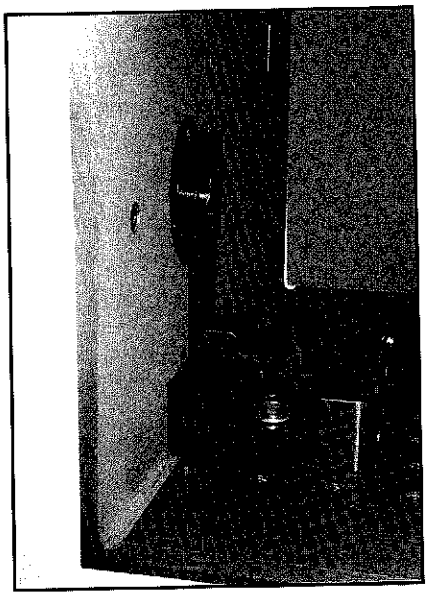
Catalog Number	Sensor Options
A02-1003-658	**UV Exlusion Filters (420nm, 460nm)-Motorized, with Computer Control of UV/VIS Balance**
D02-1003-778	**Small Area View - 1/4" (6mm)-Motorized, Computer Position Control** Computer controlled small area view lens activation. Option includes removable 1/4" port plate and sample viewing screen for precise sample placement.
B02-1005-172	**Reflectance Sample Shelf with Light Cover** For the reflectance measurement of powders, granules, pastes or liquids held in a transmission cell (10mm, 20mm, or 50mm cell - sold separately).



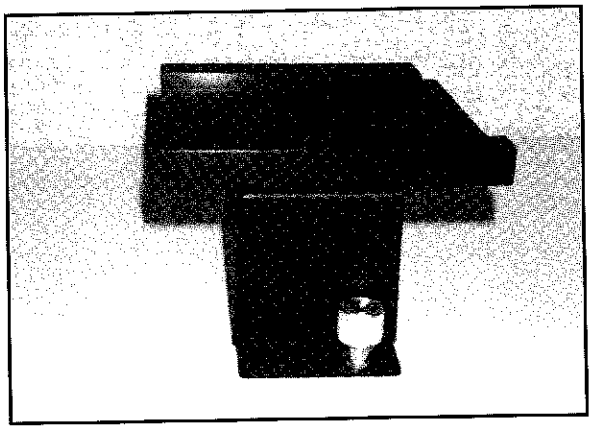


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Catalog Number	Sensor Options
C02-1005-444	**Transmission Clamp** Clamp holds transparent film or sheet in position for regular or total transmission measurements.

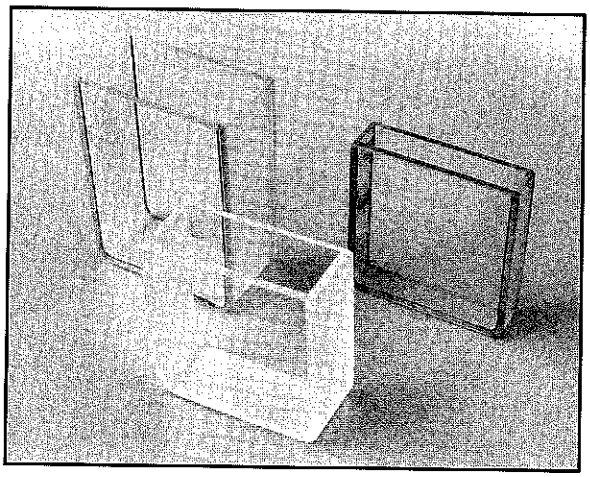


C02-1005-481	**Transmission Cell Holder** Permits transmittance mesurement of liquids in 10mm, 20mm, or 50mm transmission cell (transmission cell sold separately).

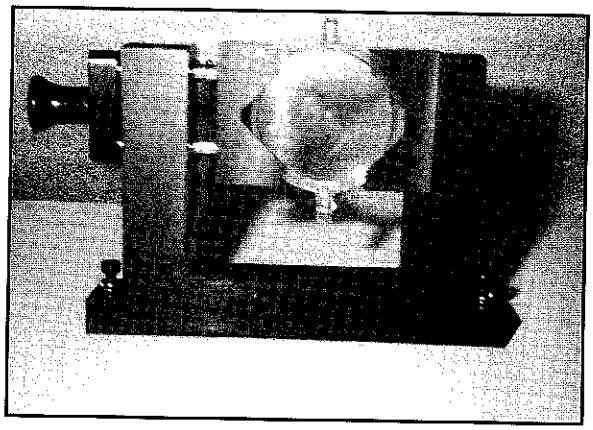


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Catalog Number	Sample Devices
13857320 (50) 04459200 (20) 13857340 (10)	**Transmission Cell** Provides an optically-clear glass cell with a fixed path length of 50mm, 20mm or 10mm. Recommended for transmission measurements on lightly pigmented materials and some reflectance measurements.



CMR 1878	**Flow-Through Cell Holder** Provides a cell holder that can be mounted in the transmission compartment. For use with either 50mm, 20mm, or 10mm flow-through cells (not included). Requires modification of transmission door for tubing.



CMR 1881 (50) CMR 1880 (20) CMR 1879 (10)	**Flow-through Cell** Provides a 2 in. (50mm) diameter, optically-clear flow-through glass cell with a path length of 50mm, 20mm, or 10mm. Recommended for transmission measurements. Tubing, syringes, and pump not included.

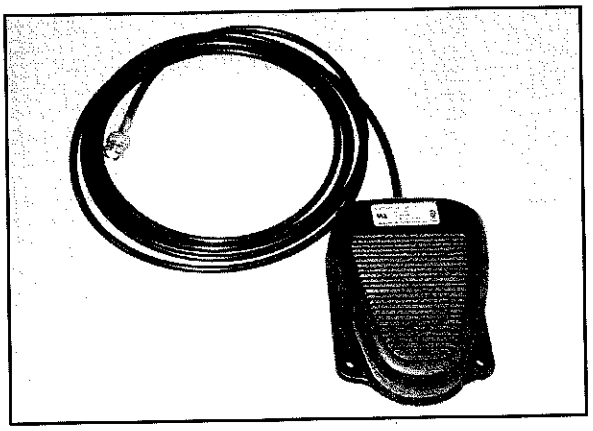
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Catalog Number

Sensor Accessories

B02-1005-211

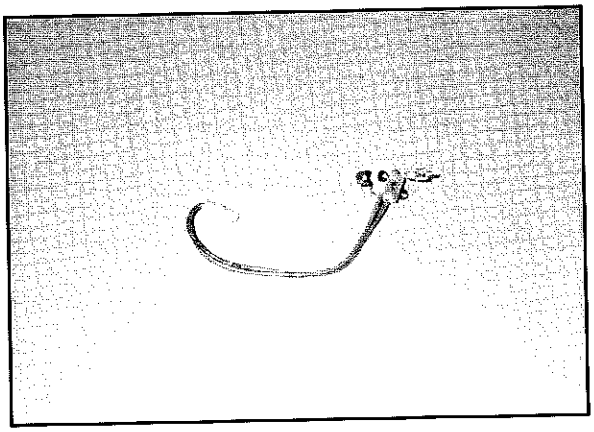
Footswitch Assembly, Remote Read/Macro Function
The optional footswitch performs the same function as the macro switch on the front of the sensor. When you depress the footswitch, a pre-programmed sequence of steps is carried out without input from the computer keyboard or mouse.



Spares

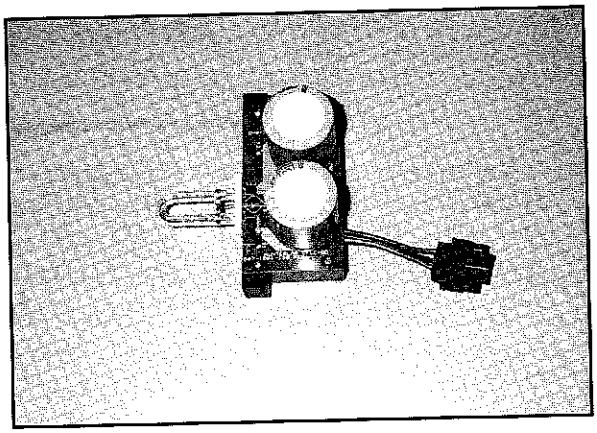
A13-1004-022

SAV Retro View Lamp (Replacement)



B02-1004-159

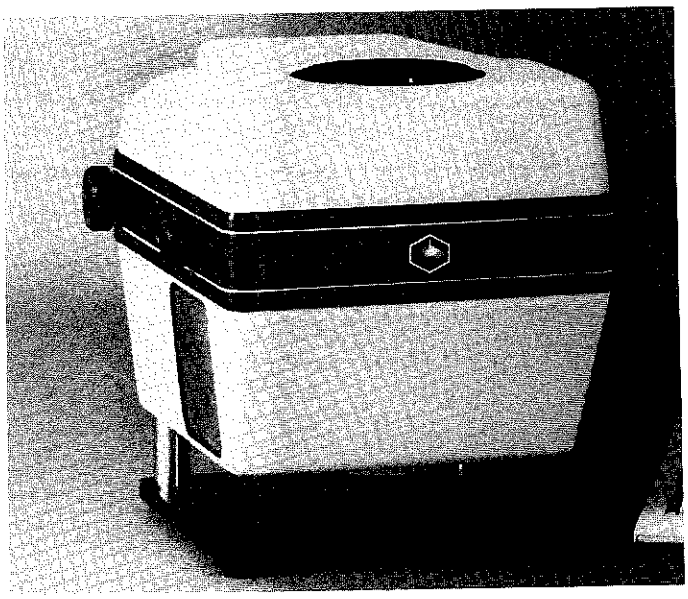
Lamp Module Assembly (Replacement)

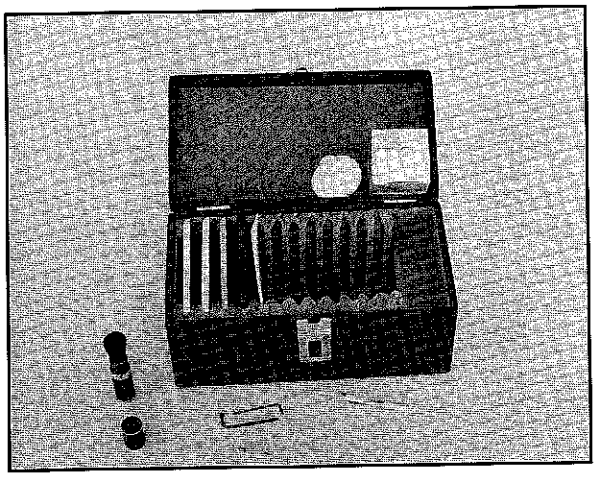


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LabScan®





Calibration standards, standards care card, tool set, spare lamp, spare fuse, lens brush, SIU, cables, and manual are included as standard accessories.

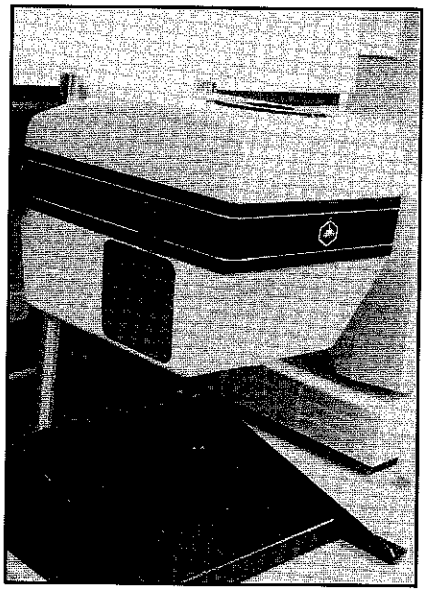
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LabScan Options and Accessories

Catalog Number	Sensor Options
LS-6075	**Variable Sample Illumination** (**Note:** Option must be part of original order; cannot be retrofitted.). Continuously variable sample illumination from the standard 1.75 in. (44mm) area down to 0.25 in. (6mm). Includes detents and 4 magnetic sample aperture inserts for 1.75 in. (44mm), 1 in. (25mm), 0.50 in. (13mm), and 0.25 in. (6mm).
LS-6076	**Ultraviolet (UV) Absorbing Filter** Includes a UV cut-off (418nm) filter on a rotatable mount to include or exclude UV from the specimen illumination for evaluation of UV-induced fluorescence. Functions only with the 1.75 in. (44mm) sample aperture. (Cannot be ordered with LS-6075.)
LS-6078	**Sensor Stand: Large Base** Provides a larger base stand with longer poles to permit sensor port-up or port-down mounting in lieu of the smaller sensor stand normally supplied. Includes a spring-loaded specimen holder.

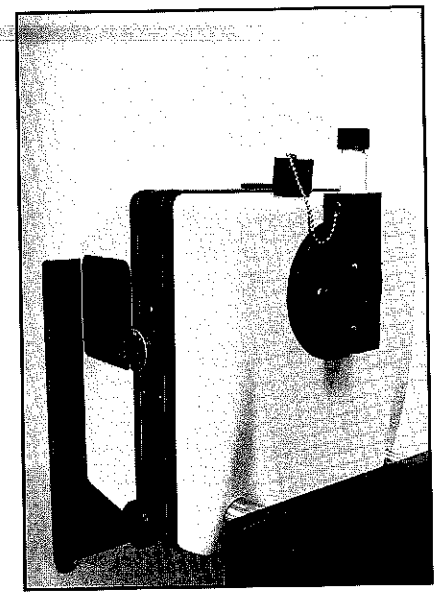
Illum/Observer	UVF in	UVF out
10 deg. C	L* 95.22 a* -1.75 b* 2.91	L* 96.13 a* -.28 b* -4.46
10 deg. D65	L* 95.23 a* -1.73 b* 3.03	L* 96.12 a* -.59 b* -4.06
10 deg. F2	L* 95.33 a* -.85 b* 3.10	L* 95.94 a* .27 b* -5.56

Example of optically brightened sample with and without UV filter.

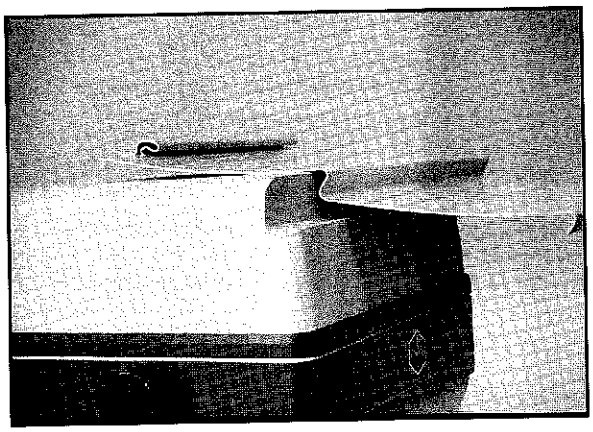


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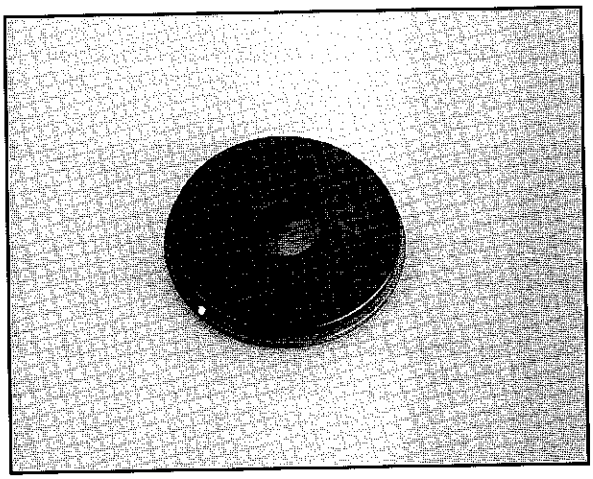
Catalog Number	Sample Devices
CMR 1612	**Citrus Stand and Tube Holder** Provides stand and test tube holder for the approved USDA method of measuring citrus color in orange juice. OJ4 standard included. Citrus number calculated from read X,Y,Z values. Software included. Requires VSI.



CMR 648	**Aluminum Siding Modification** Provides modification of cover to accommodate vinyl and aluminum siding for repeatable measurement.



CMR 559	**Port Insert** Used for retroreflective materials. Provides 0.2 inch (5mm) thicker port plate with 1 inch (25mm) port size.



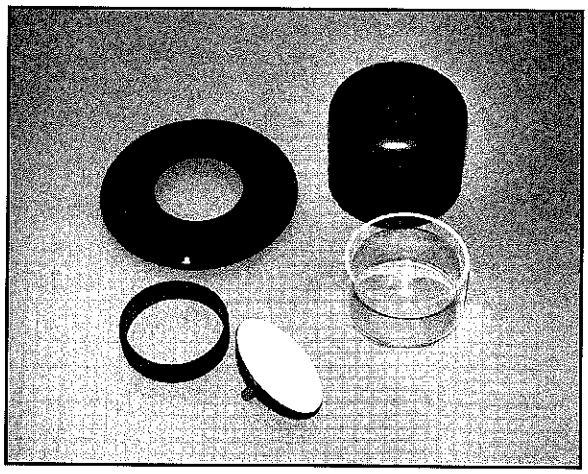
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Catalog Number	Sample Devices

02714800

Sample Cup Set for Translucent Liquids

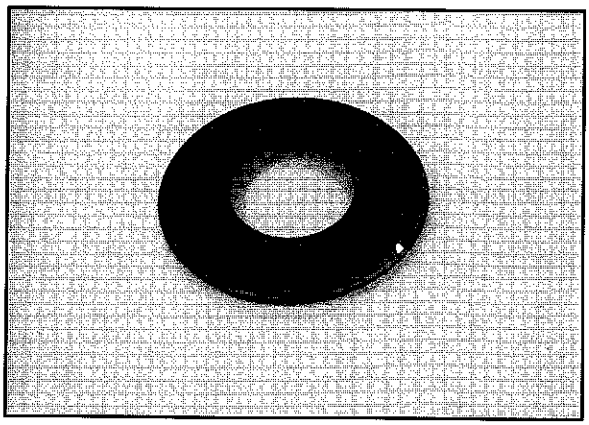
Provides a device for holding powders, pellets, granules and translucent liquids. Includes 2.5 inch (64mm) glass sample cup, plastic ring and ceramic disk set, special port plate insert and sample cup cover. The ring and disk set are provided for translucent liquids or semi-solids where the path length is related to color concentration and must be fixed. Variable Sample Illumination (VSI), Option LS-6075, is recommended for translucent products.



02308114

Sample Cup Port Holder

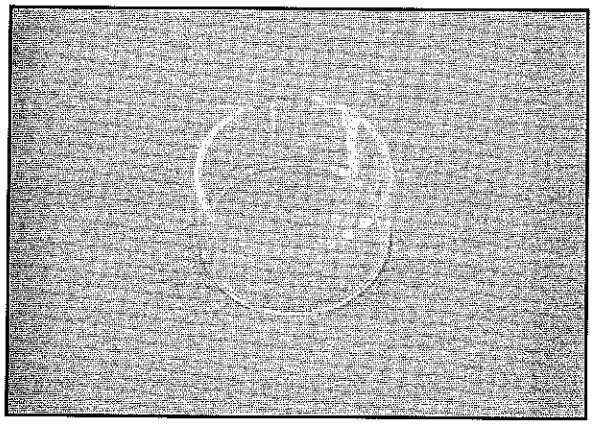
Provides a special port plate insert to accommodate the 2.5 inch (64mm) glass sample cup.



04720900

Glass Sample Cup

Provides a 2.5 inch (64mm) sample cup for the analysis of powders, granules, pellets and translucent samples.

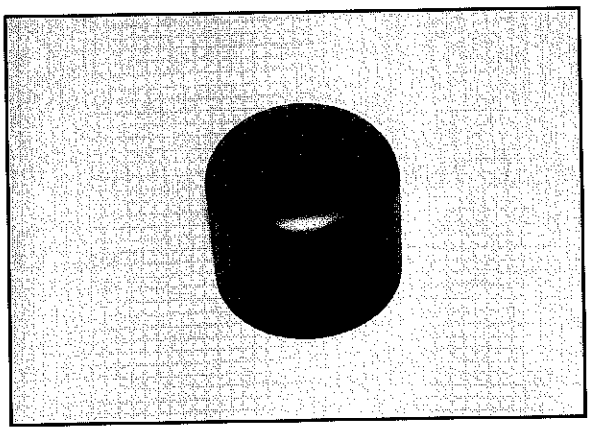


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Catalog Number	Sample Devices

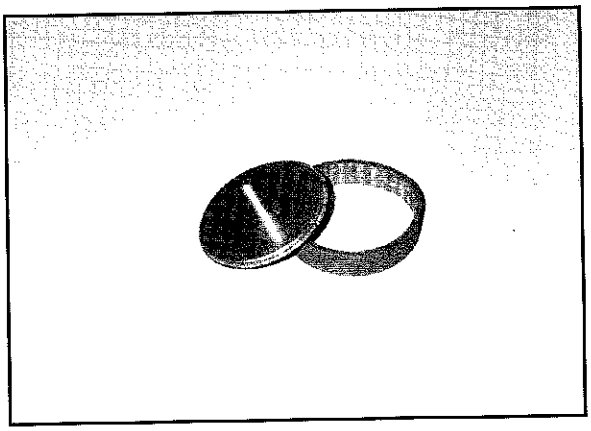
04400000

Sample Cup Opaque Cover
Provides a light trap to exclude the interference of external light on the 2.5 inch (64mm) sample cup.



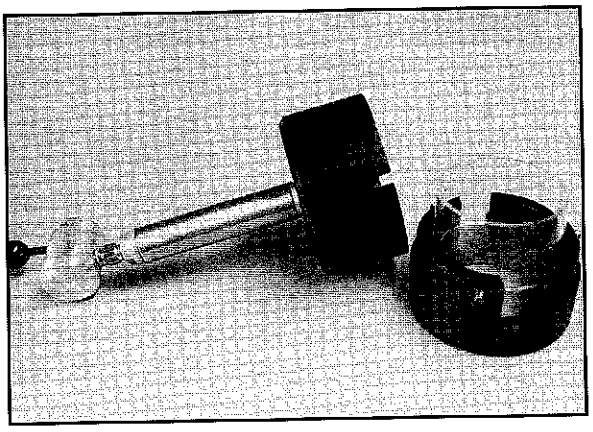
02457900

Ring and Disk Set
Provides a plastic ring and ceramic disk for use in the 2.5 inch (64mm) glass sample cup. The ring and disk set are provided for translucent liquids or semi-solids where the path length is related to color concentration and must be fixed. Does not include sample cup.



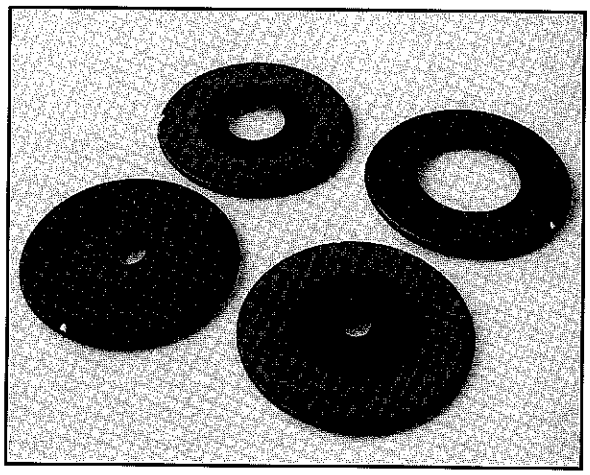
02890900

Compression Cell Set
This device is used for compressing fibers into a compact mass to permit repeatable color analysis. Provides a glass 2.5 inch (64mm) cell and a holder with valves for attaching a vacuum line. Requires plastic tubing, vacuum line and gauge.



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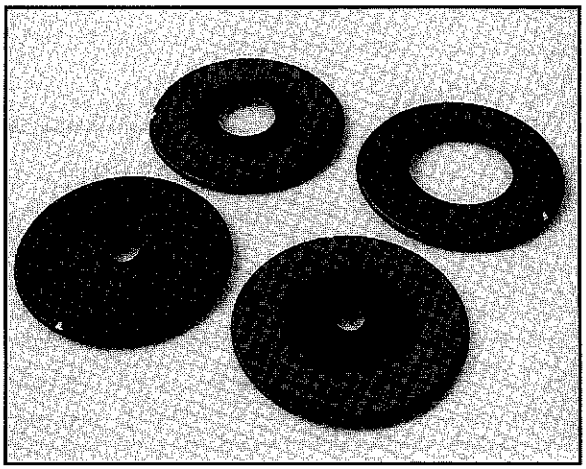
Catalog Number	Sample Devices
02308100	**Port Insert - 0.25 inch (6mm)** Provides a small port plate for use with the 0.25 inch (6mm) Variable Sample Illumination (VSI) setting.
02310600	**Port Insert - 0.25 inch (6mm) with Glass Insert** Provides a small port plate with a glass insert for use with the 0.25 inch (6mm) Variable Sample Illumination (VSI) setting. Glass insert protects inside of instrument from sample and airborne particles.
02308101	**Port Insert - 0.5 inch (13mm)** Provides a small port plate for use with the 0.5 inch (13mm) or 0.25 inch (6mm) Variable Sample Illumination (VSI) setting. Translucent products may require the use of the 0.25 inch (6mm) VSI setting to permit maximum signal from a specimen.
02310601	**Port Insert - 0.5 inch (13mm) with Glass Insert** Provides a small port plate with a glass insert for use with the 0.5 inch (13mm) or 0.25 inch (6mm) Variable Sample Illumination (VSI) setting. Translucent products may require the use of the 0.25 inch (6mm) VSI setting to permit maximum signal from a specimen. Glass insert protects inside of instrument from sample and airborne particles.



Examples of port inserts.

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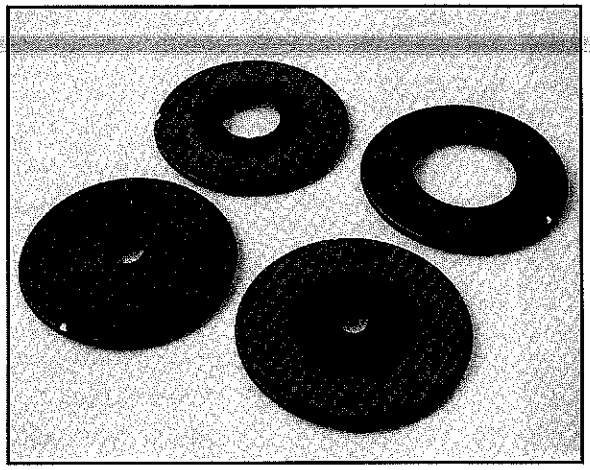
Catalog Number	Sample Devices
02308102	**Port Insert - 1 inch (25mm)** Provides a 1 inch (25mm) port plate for use with a 1 inch (25mm), 0.5 inch (13mm), or 0.25 inch (6mm) Variable Sample Illumination (VSI) setting. Translucent products may require the use of the smaller VSI settings to permit maximum signal from the specimen.
02310602	**Port Insert - 1 inch (25mm) with Glass Insert** Provides a 1 inch (25mm) port plate with a glass insert for use with a 1 inch (25mm), 0.5 inch (13mm), or 0.25 inch (6mm) Variable Sample Illumination (VSI) setting. Translucent products may require the use of the smaller VSI settings to permit maximum signal from the specimen. Glass insert protects inside of instrument from sample and airborne particles.
02308103	**Port Insert - 1.75 inch (44mm)** Provides the standard 1.75 inch (44mm) port plate for use with any Variable Sample Illumination setting. Translucent products may require the use of the smaller VSI settings to permit maximum signal from the specimen.



Examples of port inserts.

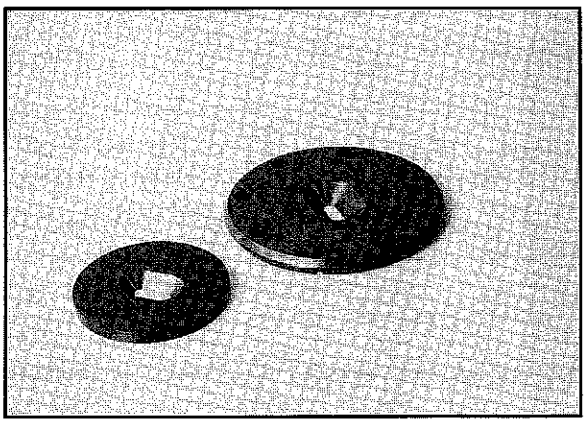
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Catalog Number	Sample Devices
02310603	**Port Insert - 1.75 inch (44mm) with Glass Insert** Provides the standard 1.75 inch (44mm) port plate with a glass insert for use with any VSI setting. Translucent products may require the use of the smaller VSI settings to permit maximum signal from the specimen. Glass insert protects inside of instrument from sample and airborne particles.



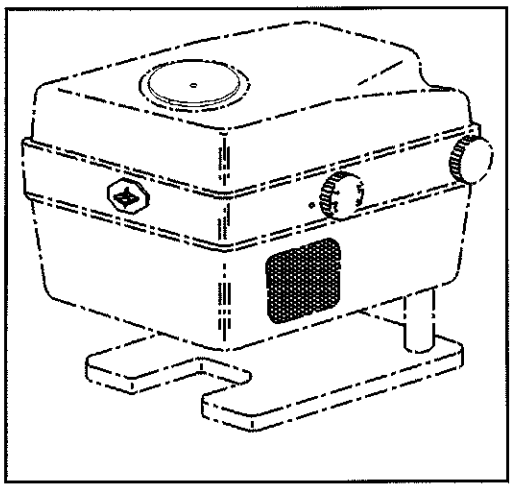
Examples of port inserts

04713500	**Port Insert: Capsule Shape (19mmx6mm)** Provides an oblong sample port opening for use with elongated specimens, capsules, etc. Requires a 1/4 inch (6mm) Variable Sample Illumination setting for optimum results.



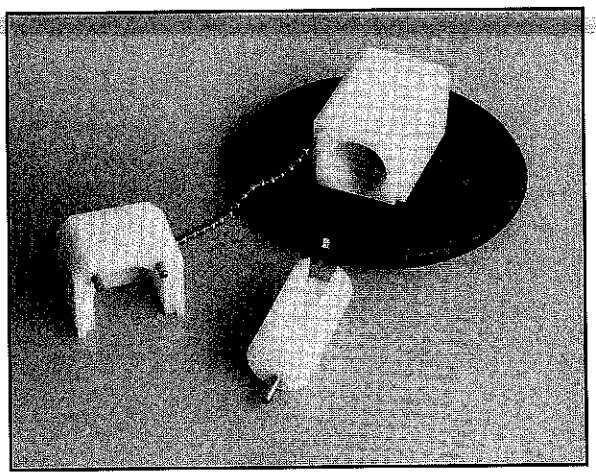
CMR 1253	**Port Insert: 11/32 inch (9mm) Round for Tablets**

CMR 506	**Port Insert: 1/8 inch (3mm) Port Plate (for small area view)** Requires Variable Sample Illumination (VSI).

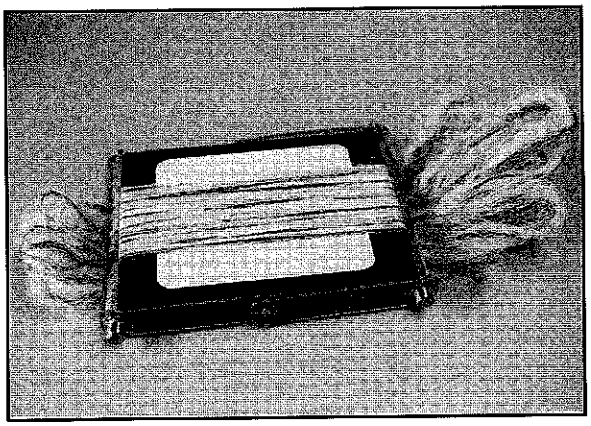


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Catalog Number	Sample Devices
CMR 658	**Ampule Sample Holder** Provides device to accommodate the analysis of ampules (vials) in reflectance. Includes port-forward stand, sample holder with cap and (2) barrel inserts.



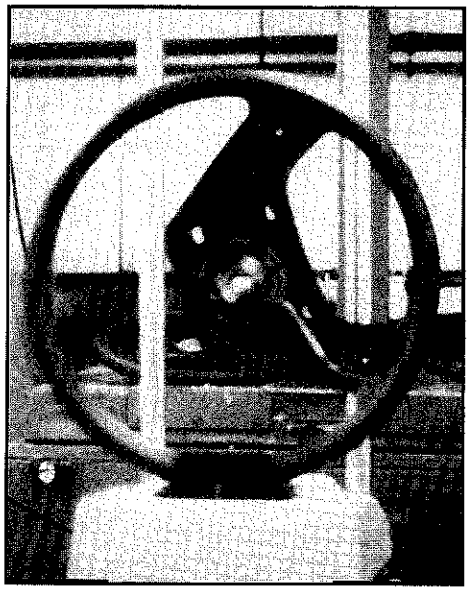
02739600	**Skein Holder** Provides device for measuring yarns and string skeins.
04416200	**Elastic Bands** Replacement bands for skein holder.



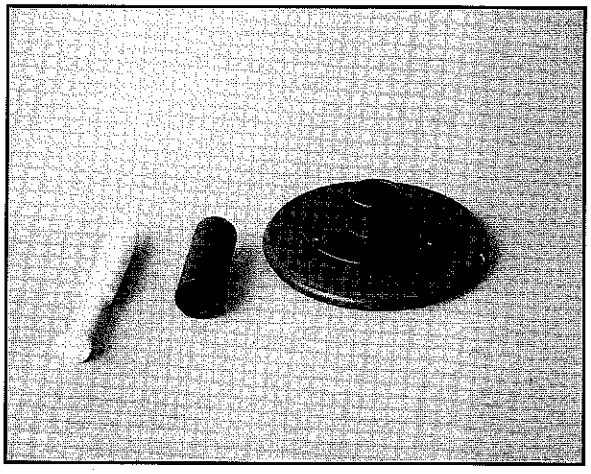
CMR 812	**Rotating Port Plate** Provides rotating port plate with "stops" at 90 degree increments, useful in textile applications.
CMR 1370	**Port Plate for PVC Tubing** Custom port plate with 1-inch (25mm) viewing area to hold PVC tubing for measurement.

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Catalog Number	Samples Devices
CMR 399	**Steering Wheel Holder** Used to reproducibly position steering wheel for measurement of reflected color.



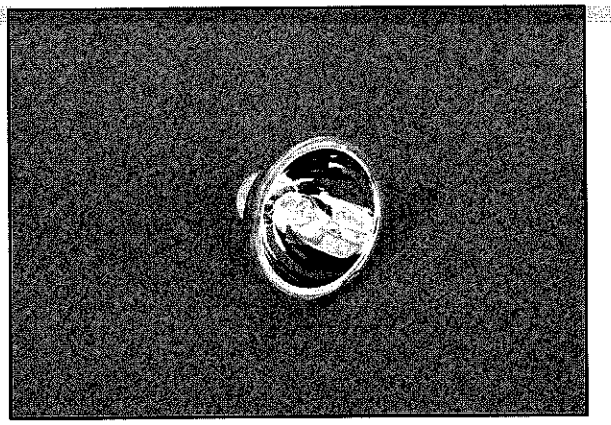
CMR 618	**Reduced Area View: Specimen Cell and Plunger** Provides a sample cup, plunger and port insert for the analysis of small specimens. Useful where only small amount of sample is available for analysis.



CMR 1266	**Flow through Cell for Reflectance** Provides a flow-through cell and light trap for measuring gels in reflectance.

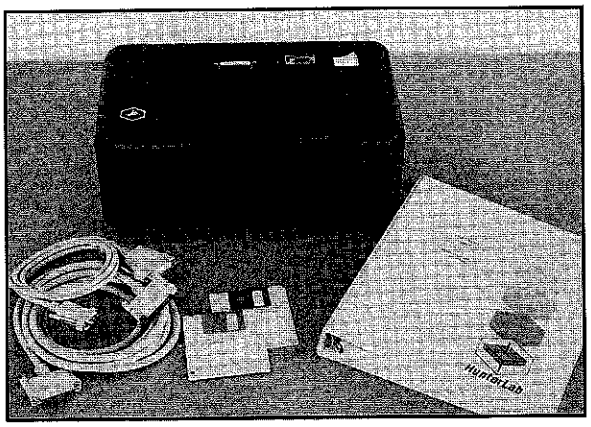
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Catalog Number	Spares
12251675	**Replacement Lamp**



Sensor Upgrade

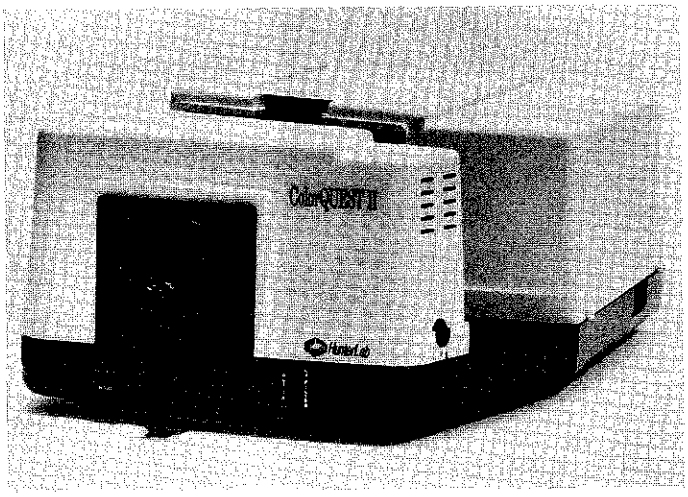
CMR 781	**Upgrade of LS-5000, LS-5100, or LS-5200 to LS-6000 with SpecWare Software** Provides Sensor Interface Unit (SIU) in lieu of processor, SpecWare software, replacement of circular variable filter, and sensor recalibration. Instrument must be returned to HunterLab for re-work. SpecWare software will require specified computer and printer.
CMR 1842	**Upgrade of LS-5000, LS-5100, or LS-5200 to LS-6000 with Universal Software** Provides Sensor Interface Unit (SIU) in lieu of processor, LabScan Universal Software, replacement of circular variable filter, and sensor recalibration. Instrument must be retruned to HunterLab for re-work. Universal Software will require specified computer and printer.

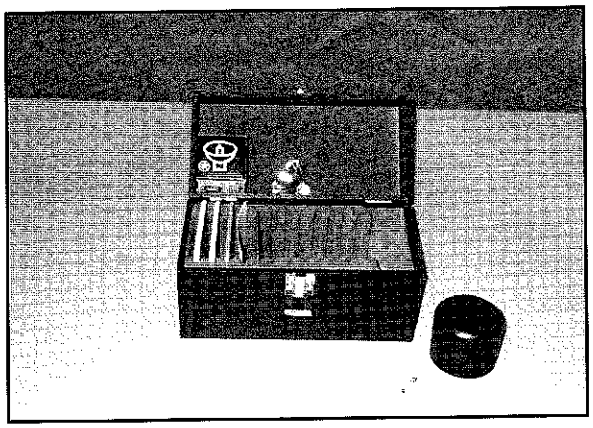


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ColorQUEST™ II Sphere





Calibration standards, tile data sheet, standards care card, light trap, black card, tool set, spare lamp, spare fuse, sample clamp, cables, and manual are included as standard accessories.

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ColorQUEST II Sphere Options and Accessories

Catalog Number

Sensor Options

C02-1003-939

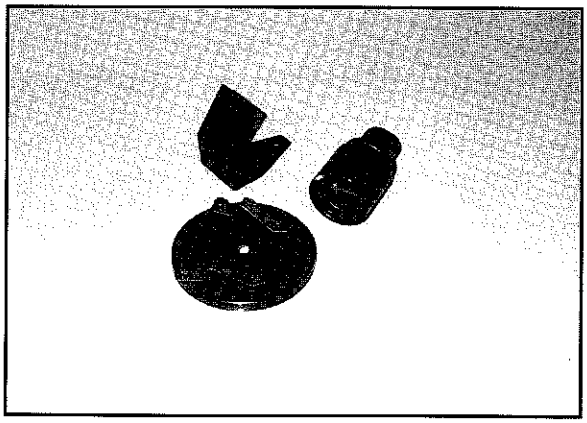
Ultraviolet (UV) Absorbing Filter
Includes a UV cut-off filter which can be inserted in the light path to include or exclude UV from the light source and allows for evaluation of UV-induced fluorescence.

Illum/Observer	UVF in	UVF out
10 deg. C	L* 95.22 a* -1.75 b* 2.91	L* 96.13 a* -.28 b* -4.46
10 deg. D65	L* 95.23 a* -1.73 b* 3.03	L* 96.12 a* -.59 b* -4.06
10 deg. F2	L* 95.33 a* -.85 b* 3.10	L* 95.94 a* .27 b* -5.56

Example of optically brightened sample with and without UV filter.

L02-1004-769

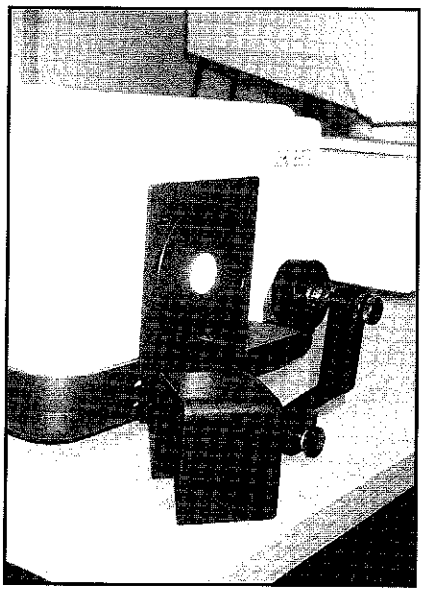
Small Area View (SAV) Kit
Provides for viewing a 0.25 inch (6mm) diameter specimen area. Includes an SAV lens, SAV port plate, and a specimen retroviewer.



Sample Devices

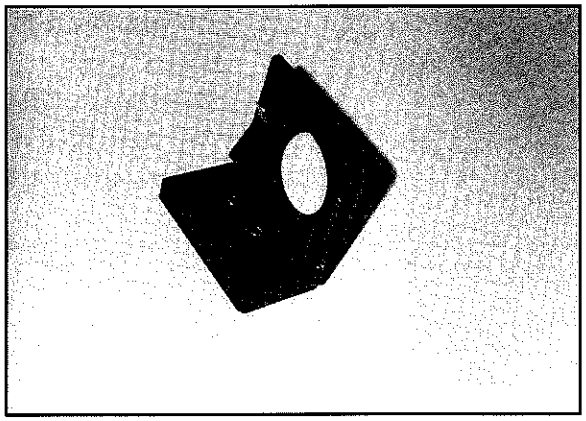
A02-1004-770

Reflectance Sample Shelf and Light Cover Kit
Provides a sample shelf that allows a 50mm cell to be placed at the reflectance port for measurement of opaque powders and liquids. Includes light cover. 50mm cell not included.

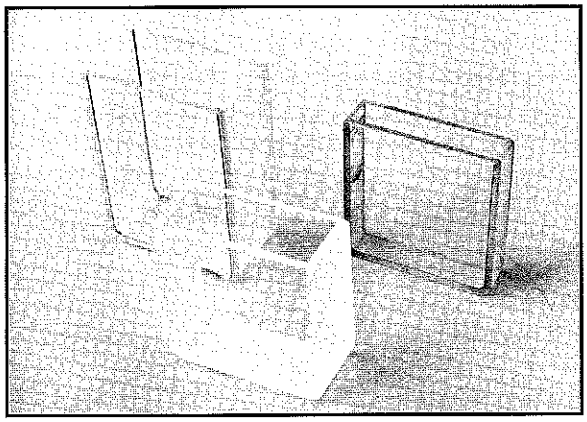


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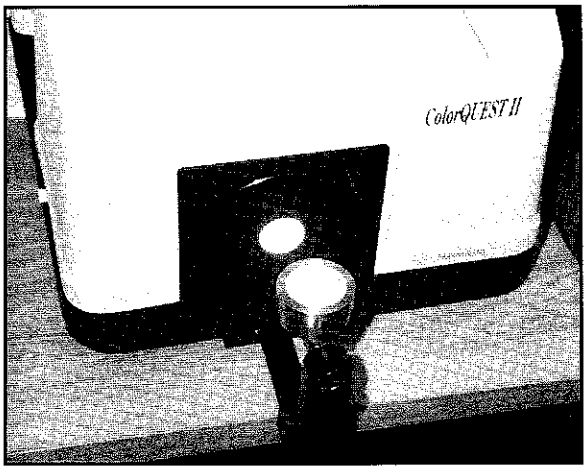
Catalog Number	Sample Devices
C02-1004-009	**Transmission Specimen Holder** Consists of a device that can be inserted in the light path to hold samples for transmission measurement.



13857320 (50) 04459200 (20) 13557340 (10)	**Transmission Cell** Provides an optically-clear glass cell with a fixed path length of 50mm, 20mm, or 10mm. Recommended for transmission measurements on lightly pigmented materials and some reflectance measurements.

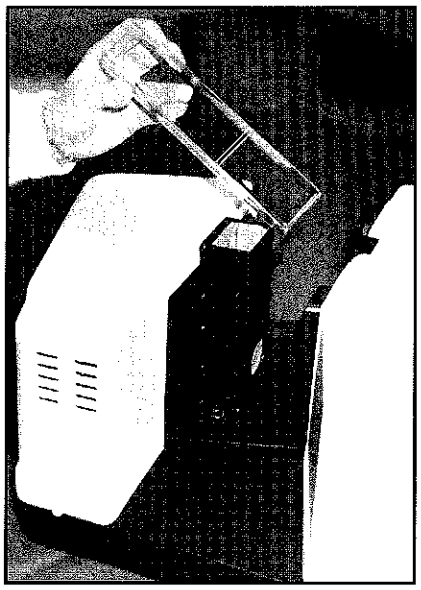


CMR 1754	**Tablet Sample Holder** Provides sample holder at reflectance port to measure various size tablets and capsules. Includes L02-1004-769, Small Area View Kit.

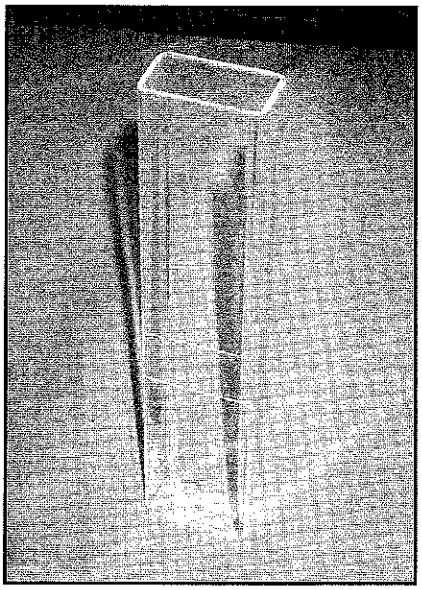


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Catalog Number	Samples Devices
CMR 1793	**Modification of CQII Sensor for Hot Solution Transmission Cell** Provides modifications to the ColorQUEST II sphere sensor to aid in measurements of hot liquids (250 degree C or less). These modifications include an insulated cell holder for support of a tall transmission cell with a pathlength of 20mm (purchased separately) and modifications to the transmission compartment door to allow the transmission cell to ventilate outside of the instrument. (This CMR does not include tall transmission cell or heating mantle.)

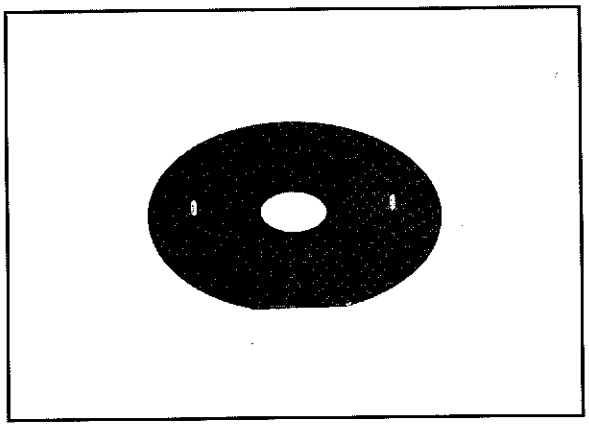


CMR 1508	**Tall Optical Cell** (20mm x 40mm x 200mm) Provides 200mm tall optical cell compatible with Hot Cell Transmission Holder (minimum order: 5)

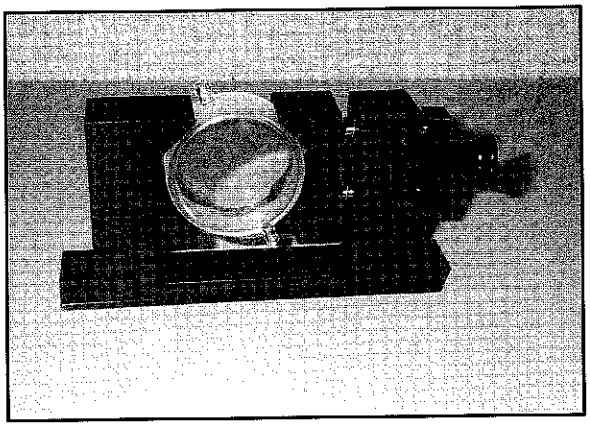


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Catalog Number	Sample Devices
CMR 1830	**Wet Sample Port Plate** Provides port insert at reflectance port for use in measuring wet samples.



CMR 1882	**Flow-through Cell Holder** Provides a cell holder that can be mounted in the transmission compartment. For use with either 50mm, 20mm, or 10mm flow-through cells (not included). Requires modification of transmission door for tubing.

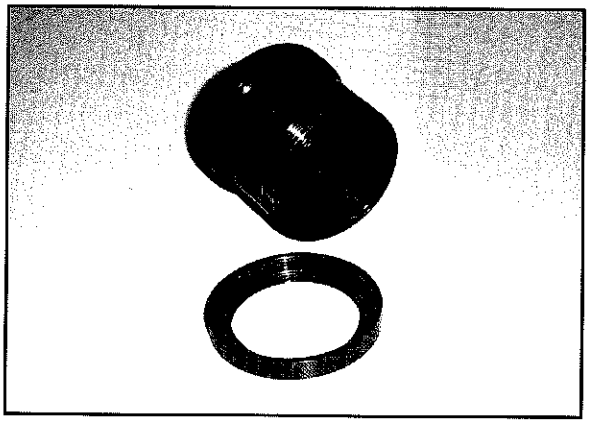


CMR 1881 (50) CMR 1880 (20) CMR 1879 (10)	**Flow-through Cell** Provides a 2 inch (50mm) diameter, optically-clear flow-through glass cell with a path length of 50mm, 20mm, or 10mm. Recommended for transmission measurements. Tubing, syringes, and pump not included.

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ColorQUEST II Sphere (continued)

Catalog Number	Sample Devices
CMR 1654	**Sealed Cell** Provides a sample cell that is 2.03 inches (50mm) in diameter, 2.09 inches (50mm) long with an opaque cap at one end and a glass cap at the other end. Used to measure powders and granules in reflectance. (For use with PN - A02-1004-770, Reflectance Sample Shelf and Light Cover).

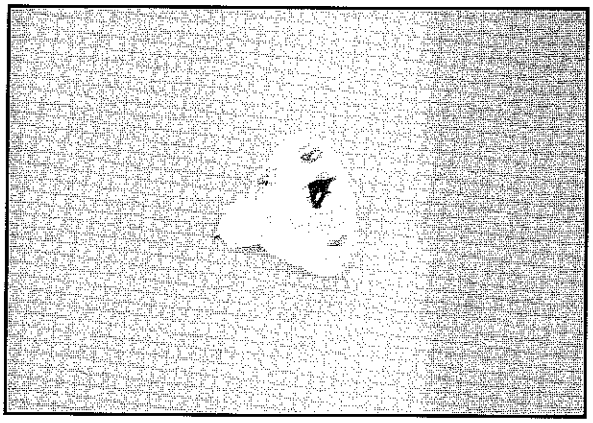


CMR 1735	**CQII Modification and Transmission Holder for Bottles** Provides modification to the ColorQUEST II sensor to allow for the measurement of various sized bottles in transmission.



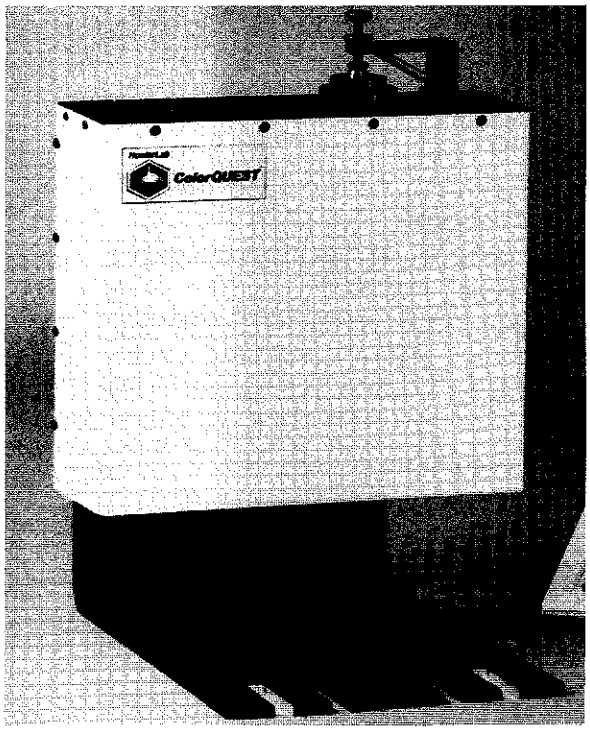
Spares

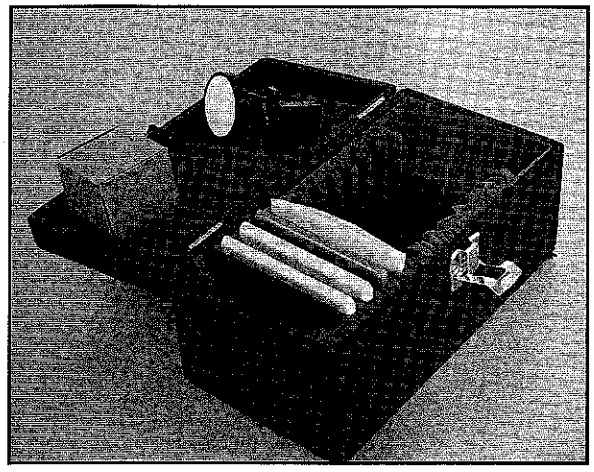
15015100	**Replacement Lamp** (set of 5)



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ColorQUEST™ 45/0



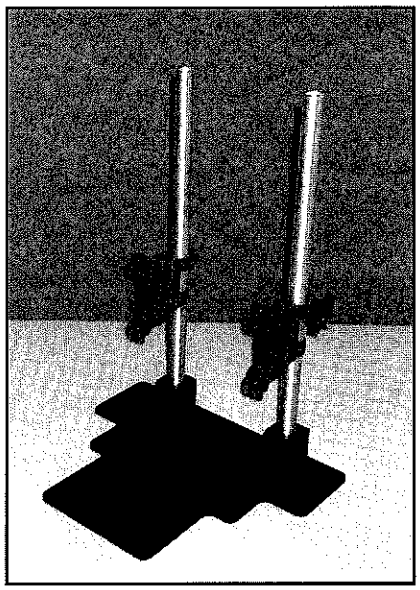


Calibration standards, tile data sheet, standards care card, tool set, spare lamp, spare fuse, sample clamp, cables, and manual are included as standard accessories.

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ColorQUEST 45/0 Options and Accessories

Catalog Number	Sensor Options
CQS-1402	**Port-up/Port-down Stand** Two way, port-up and port-down stand. Base fits under DP-9000 processor. The standard sample clamp is provided with instrument.



CQS-UVC

Ultraviolet Absorbing Filter
Includes a UV cut-off filter which can be inserted in the light path to include or exclude UV from the light source to allow for evaluation of UV-induced fluorescence.

Illum/Observer	UVF in	UVF out
10 deg. C	L* 95.22 a* -1.75 b* 2.91	L* 96.13 a* -.28 b* -4.46
10 deg. D65	L* 95.23 a* -1.73 b* 3.03	L* 96.12 a* -.59 b* -4.06
10 deg. F2	L* 95.33 a* -.85 b* 3.10	L* 95.94 a* .27 b* -5.56

Example of optically brightened sample with and without UV filter

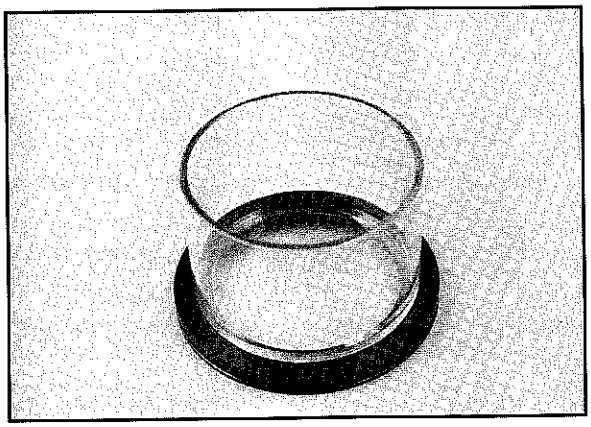
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CMR 922

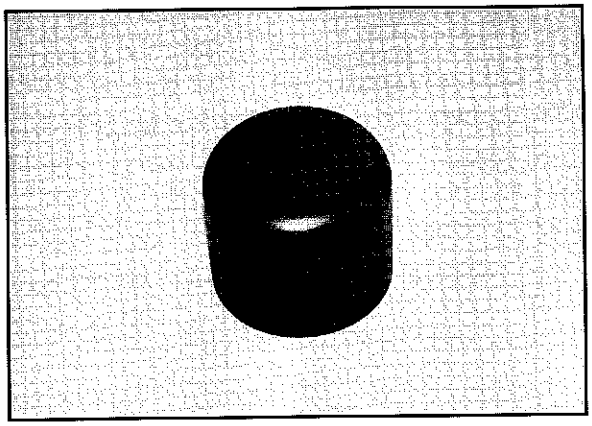
Positive Air Pressure
Provides internal positive air pressure to force sample against the sample clamp.

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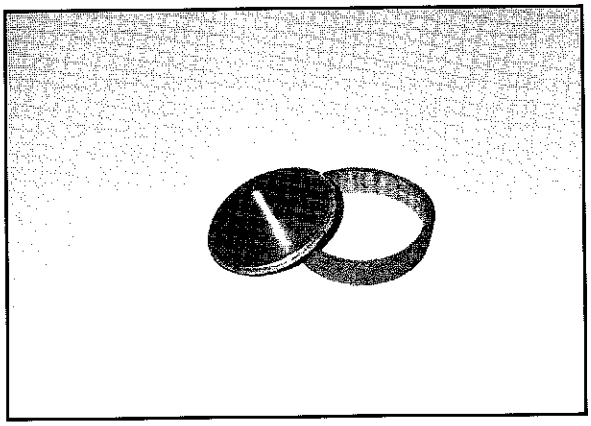
Catalog Number	Sample Devices
04662200	**Port Insert for Sample Cup 2.5 inch (64mm)** Provides a special port plate insert to accommodate the 2.5 inch (64mm) glass sample cup.
04720900	**Glass Sample Cup** Provides a 2.5 inch (64mm) sample cup for the analysis of powders, granules, pellets and translucent samples.



04400000	**Sample Cup Opaque Cover** Provides a light trap to exclude the interference of external light on the 2.5 inch (64mm) sample cup.

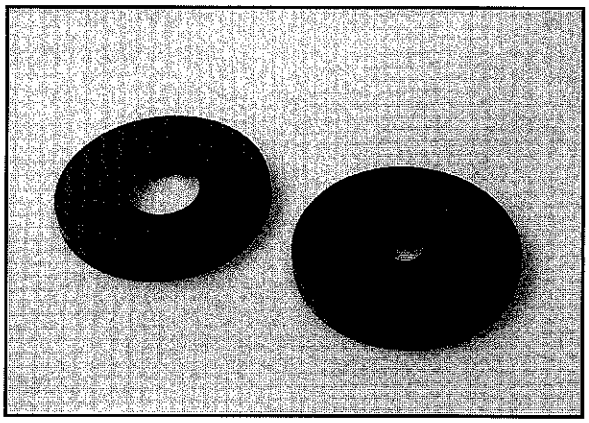


02457900	**Ring and Disk Set** Provides a plastic ring and ceramic disk for use in the 2.5 inch (64mm) glass sample cup. The ring and disk set are provided for translucent liquids or semi-solids to exclude external light and provide a consistant white background. Does not include sample cup.



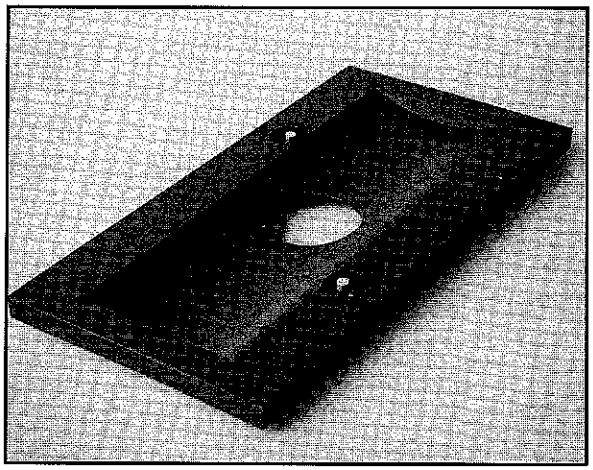
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Catalog Number	Sample Devices
04662305	**Port Insert: 1/2 inch (13mm)** Provides 1/2 inch (13mm) port plate.
02662402	**Port Insert: 1/2 inch (13mm) with Glass Insert** Provides 1/2 inch (13mm) port plate insert. Glass protects inside of instrument from sample and airborne particles.
04662307	**Port Insert: 5/8 inch (16mm)** Provides 5/8 inch (16mm) port plate.
04662308	**Port Insert: 3/4 inch (19mm)** Provides 3/4 inch (19mm) port plate.
04662309	**Port Insert: 1 inch (25mm)** Provides 1 inch (25mm) port plate.
02662401	**Port Insert: 1 inch (25mm) with Glass Insert** Provides 1 inch (25mm) port plate with insert. Glass protects inside of instrument from sample and airborne particles.



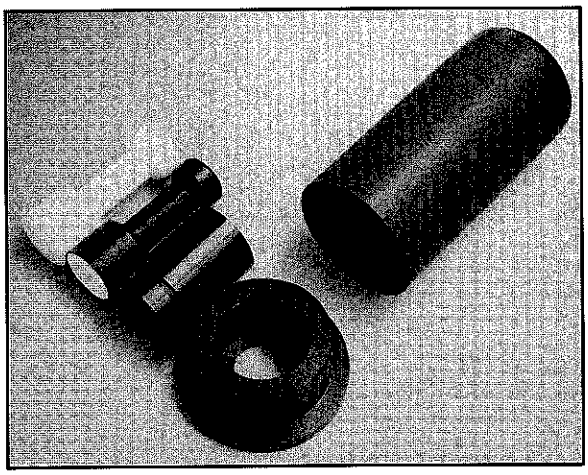
Examples of Port Inserts

CMR 703	**Bobbin Holder** For bobbins that have a 2-1/8 inch (54mm) radius of curvature.



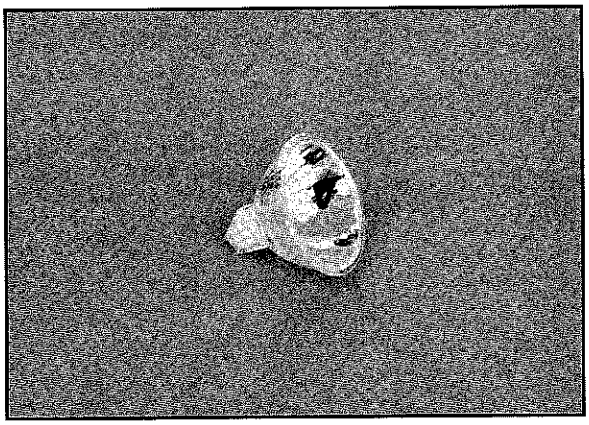
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Catalog Number	Sample Devices
CMR 1011	**One inch (25mm) Specimen Cell and Plunger** Provides a sample handling device to compress fine powders in preparation for sample measurement. A porcelain white standard and light cover are included for instrument standardization.



Spares

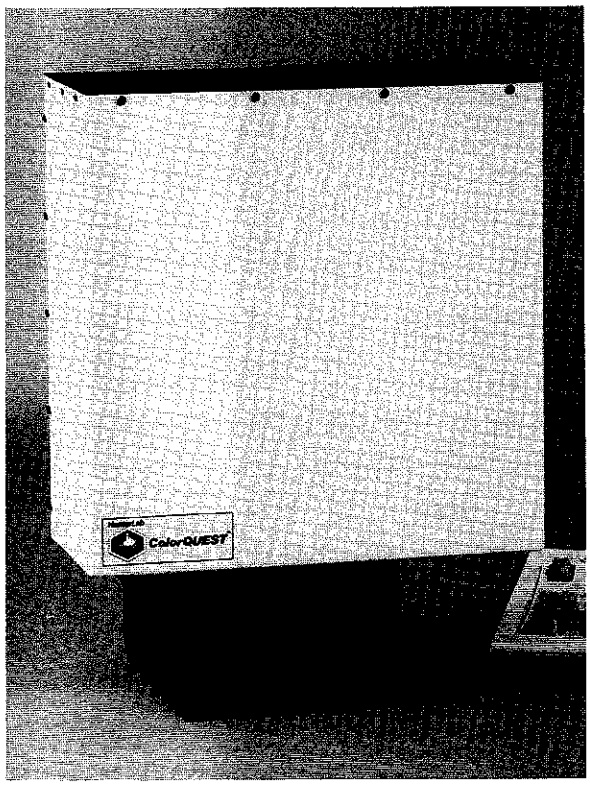
15015100	**Replacement Lamp** (set of 5)

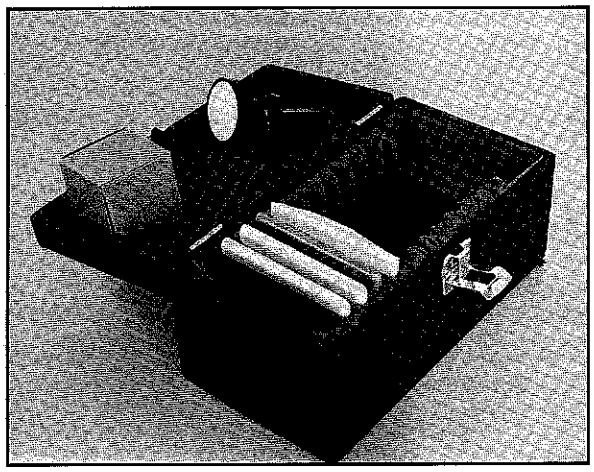


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ColorQUEST™ 45/0 LAV





Calibration standards, tile data sheet, standards care card, spare lamp, spare fuse, sensor stand, cables, and manual are included as standard accessories.

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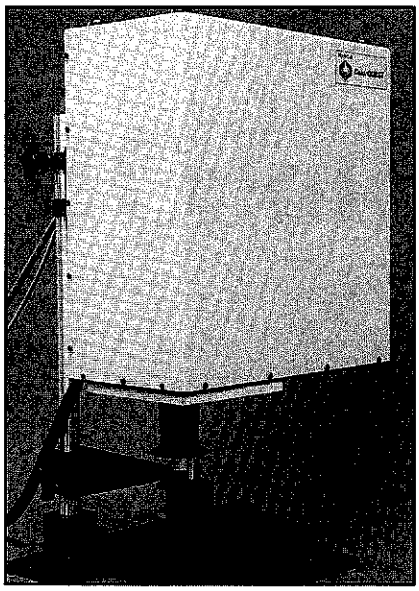
ColorQUEST 45/0 LAV Options and Accessories

Catalog Number

Sensor Options

CQS-1402

Port-Up/Port-Down Stand
Two way, port-up and port-down stand with spring-loaded sample clamp. (Standard with ColorQUEST 45/0 LAV.) Base fits under DP-900 processor.



B04-1002-563

Port Insert: 2 inch (51mm) Reduced Area View
Provides removable port insert to reduce viewed area from 3.75 inch (95mm) to 2 inch (51mm).

CQS-UVC

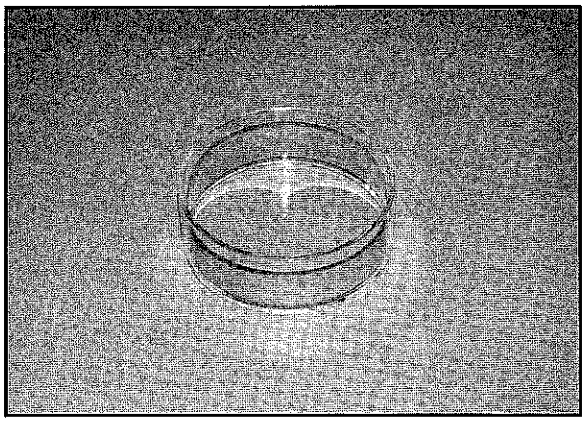
Ultraviolet Absorbing Filter
Includes a UV cut-off filter which can be inserted in the light path to include or exclude UV from the light source to allow for evaluation of UV-induced fluorescence.

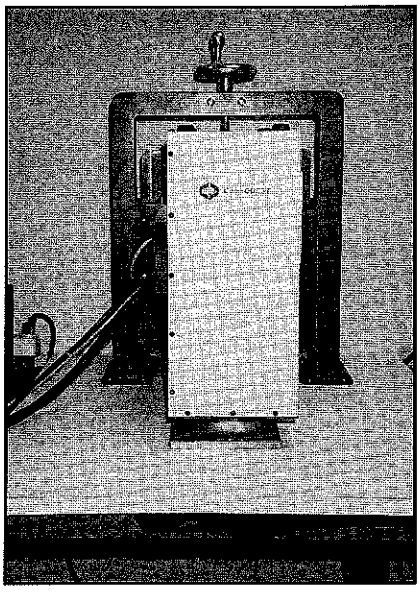
Illum/Observer	UVF in	UVF out
10 deg. C	L* 95.22 a* -1.75 b* 2.91	L* 96.13 a* -.28 b* -4.46
10 deg. D65	L* 95.23 a* -1.73 b* 3.03	L* 96.12 a* -.59 b* -4.06
10 deg. F2	L* 95.33 a* -.85 b* 3.10	L* 95.94 a* .27 b* -5.56

Example of optically brightened sample with and without UV filter.

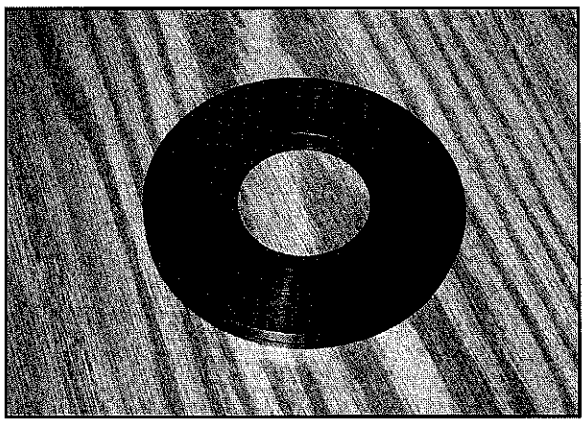
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Catalog Number	Sample Devices
CMR 1432	**Air Purge for ColorQUEST Large Area View** Provides for positive air pressure at the sample port that is compatible with removeable 2 inch (51mm) port insert. New instrument only.
04776700	**Glass Sample Cup (5 inch) (127mm)** Provides a 5-inch (127mm) glass sample cup for the analysis of large granular products and foods.
CMR 1316	**Stand for Inverted Positioning of Sensor** Provides a sensor stand with adjustable sensor height that can be locked once height is set. Cantilivered mounting allows samples to be moved freely beneath sensor without obstruction.

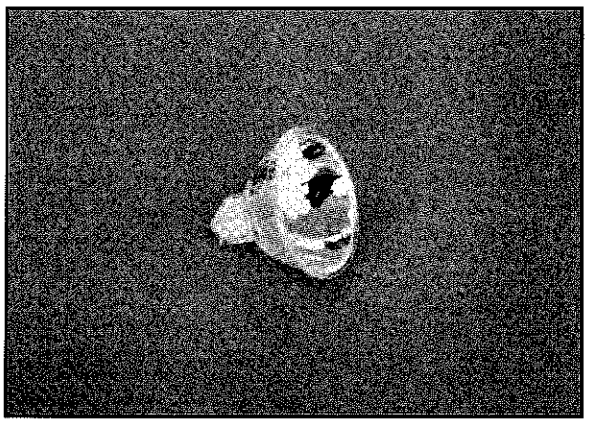




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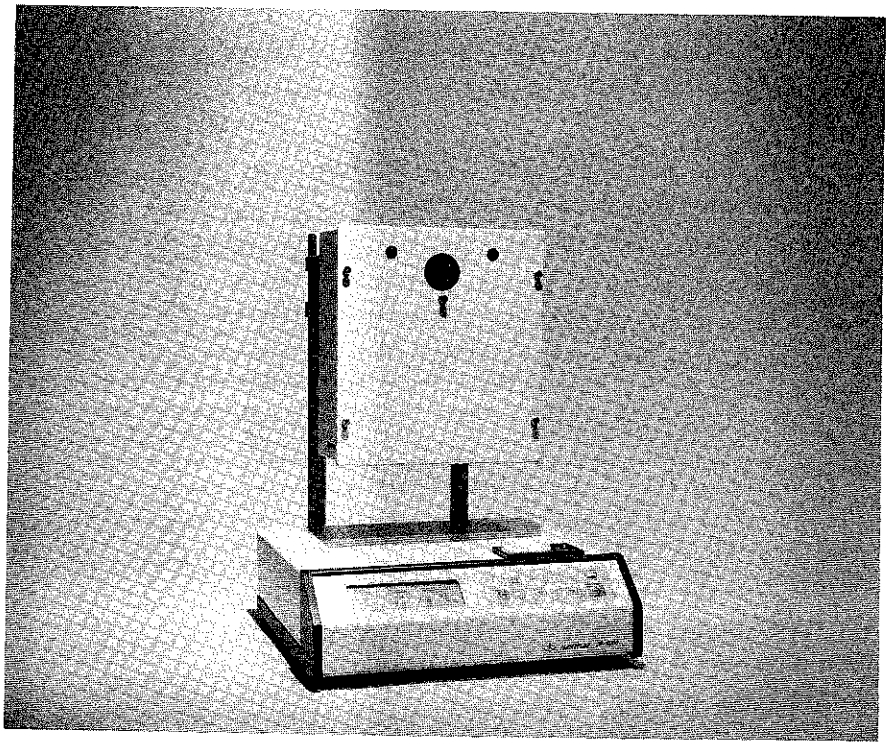
Catalog Number	Sample Devices	
CMR 1692	**Port Insert for 2.5 inch (64mm) Sample Cup** Provides a special port plate insert to accommodate the 2.5 inch (64mm) glass sample cup.	

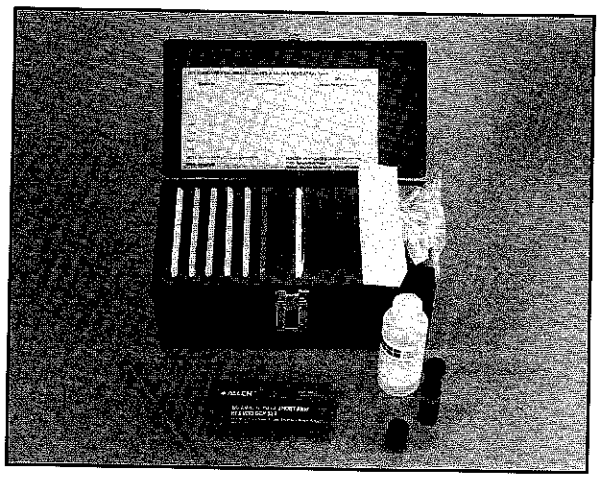
Spares

15015100	**Replacement Lamp** (set of 5)	

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D25 A Colorimeter





Calibration standards, tile data sheet, standards care card, tool set, spare lamp, spare fuse, lens brush, lens cleaner, cables, sensor stand with sample clamp, printer paper, and manual are included as standard accessories.

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D25 A Options and Accessories

Catalog Number	"A" Sensor Options

D25-RAI

Reduced Area Illumination
Includes turnable lenses to reduce area illuminated to 1/2 inch (13mm) diameter and port insert with 1/2 inch (13mm) diameter aperture.

D25-UVA

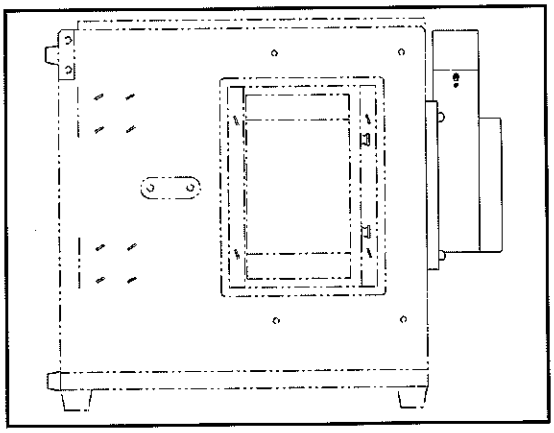
Ultraviolet (UV) Absorbing Filter
Includes pair of UV absorbing filters on rotatable mount to include or exclude UV from specimen illumination for UV-induced fluorescence evaluation. **(N/A with software option D25-2B$_T$).**

Illum/Observer	UVF in	UVF out
2 deg. C	L* 95.22	L* 96.13
	a* -1.75	a* -.28
	b* 2.91	b* -4.46

Example of optically brightened sample with and without UV filter.

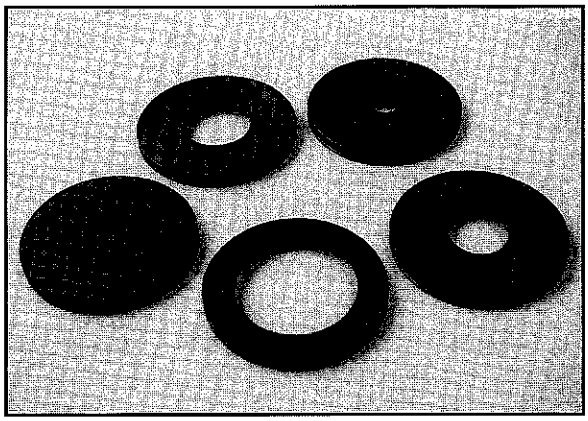
CMR 800

Citrus Colorimeter
D25 A sensor equipped with citrus tube sample holder and horizontal stand. Requires RAI option.



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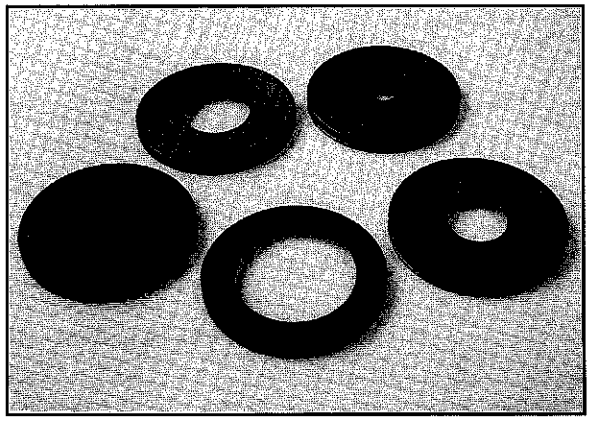
Catalog Number	"A" Sample Devices
04662314	**Port Insert: 1/8 inch (3mm)** Provides 1/8 inch (3mm) port plate for use with Reduced Area Illumination (RAI).
04662300	**Port Insert: 1/4 inch (6mm)** Provides 1/4 inch (6mm) port plate for use with Reduced Area Illumination (RAI).
02662403	**Port Insert: 1/4 inch (6mm) with Glass Insert** Provides 1/4 inch (6mm) port plate for use with Reduced Area Illumination (RAI). Glass insert protects inside of instrument from sample and airborne particles.
04662303	**Port Insert: 3/8 inch (10mm)** Provides 3/8 inch (10mm) port plate for use with Reduced Area Illumination (RAI).
04662305	**Port Insert: 1/2 inch (13mm)** Provides 1/2 inch (13mm) port plate for use with Reduced Area Illumination (RAI).
02662402	**Port Insert: 1/2 inch (13mm) with Glass Insert** Provides 1/2 inch (13mm) port plate for use with Reduced Area Illumination (RAI). Glass insert protects inside of instrument from sample and airborne particles.
04662307	**Port Insert: 5/8 inch (16mm)** Provides 5/8 inch (16mm) port plate for use with Reduced Area Illumination (RAI).



Examples of port inserts

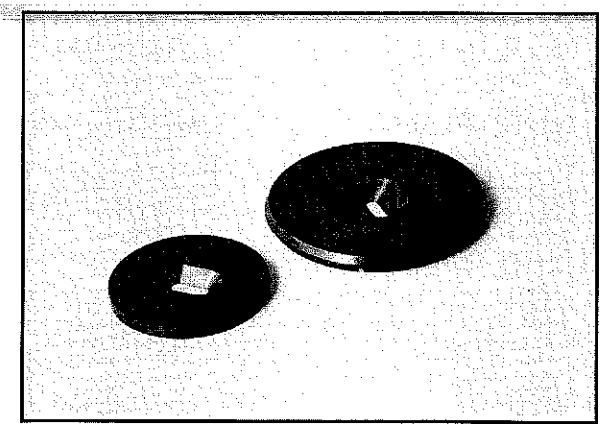
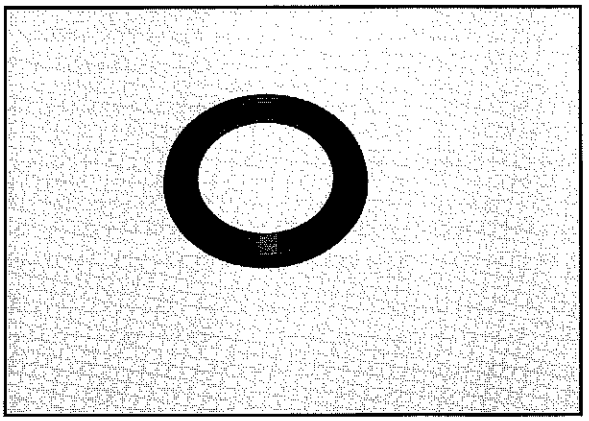
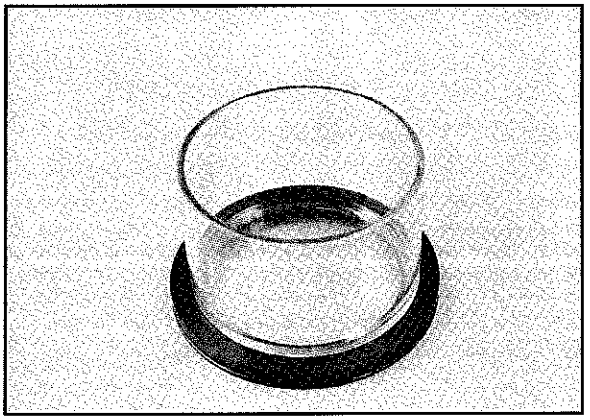
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Catalog Number	"A" Sample Devices
04662308	**Port Insert: 3/4 inch (19mm)** Provides 3/4 inch (19mm) port plate for use with Reduced Area Illumination (RAI).
04662309	**Port Insert: 1 inch (25mm)** Provides 1 inch (25mm) port plate.
02662401	**Port Insert: 1 inch (25mm) with Glass Insert** Provides 1 inch (25mm) port plate. Glass insert protects inside of instrument from sample and airborne particles.
04662310	**Port Insert: 1.25 inch (32mm)** Provides 1.25 inch (32mm) port plate.
04662311	**Port Insert: 1.5 inch (38mm)** Provides 1.5 inch (38mm) port plate.
04662312	**Port Insert: 2 inch (51mm)** Provides 2 inch (51mm) port plate.
02662400	**Port Insert: 2 inch (51mm) with Glass Insert** Provides 2 inch (51mm) port plate. Glass insert protects inside of instrument from sample and airborne particles.

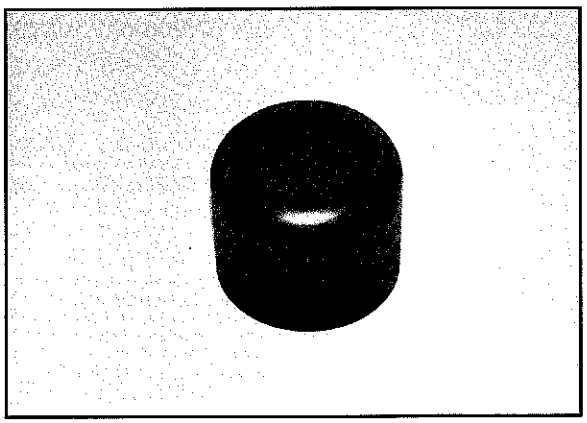
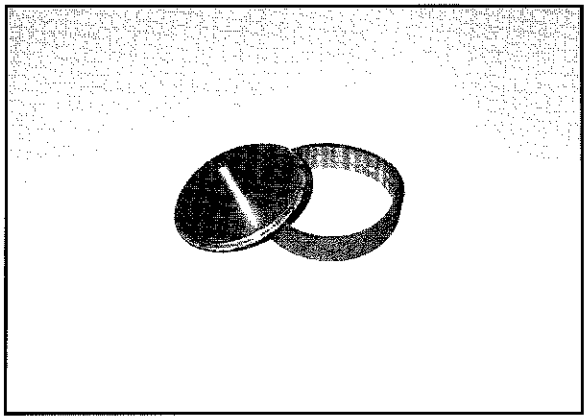
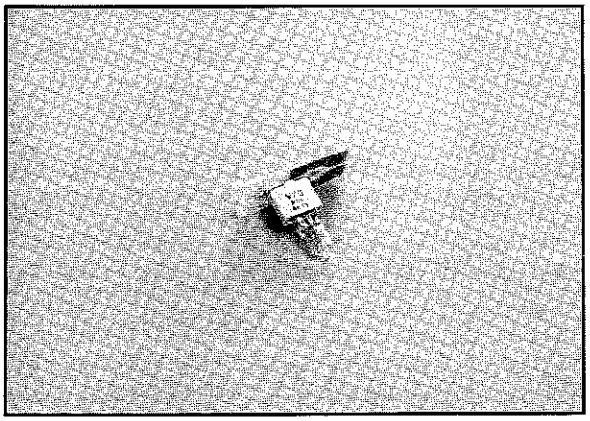


Examples of port inserts

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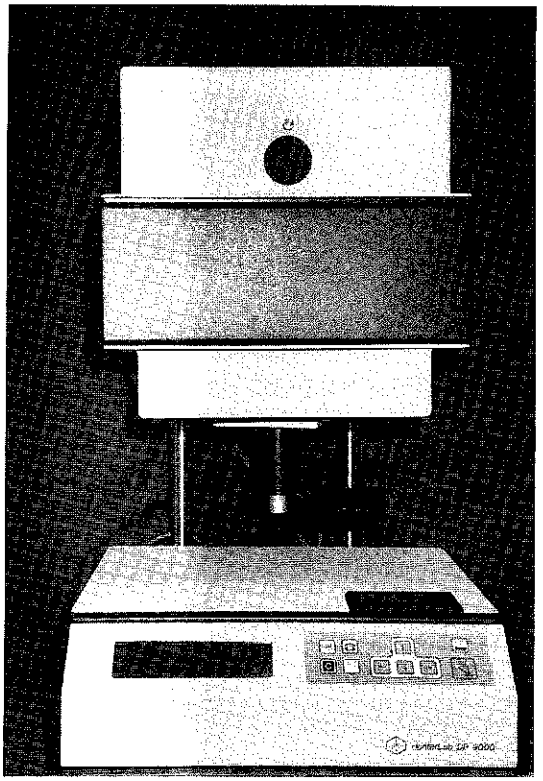
Catalog Number	"A" Sample Devices	
04662001	**Port Insert, Capsule Shape 1/4 x 3/4 inch (6mm x 19mm)** Provides an oblong sample port opening for use with elongated specimens, capsules, etc. Requires RAI.	
04662100	**Port Insert, Wet Specimen, 2 inch (51mm) diameter Port with 0.15 inch (4mm) "Lip" for Specimen Contact** Provides 2 inch (51mm) port plate with a raised ring just outside the port opening for placement of wet samples.	
04720900	**Glass Sample Cup** Provides 2.5 inch (64mm) sample cup for the analysis of powders, granules, pellets, and translucent samples.	
04662200	**Port Insert for Sample Cup, 2.5 inch (64mm)** Provides a port plate designed to hold the sample cup in place.	

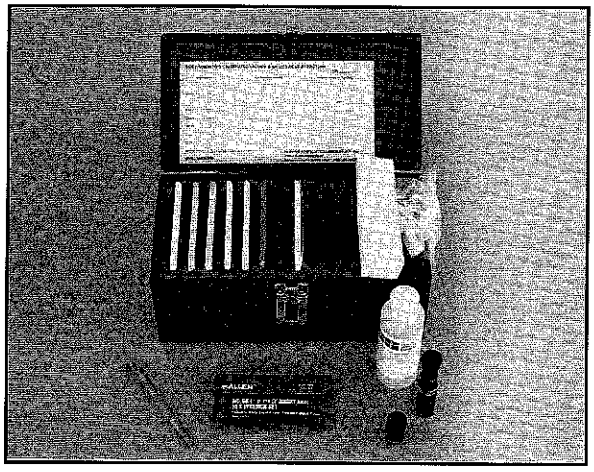
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Catalog Number	"A" Sample Devices	
04400000	**Sample Cup Opaque Cover** Provides a light trap to exclude the interference of external light on the 2.5 inch (64mm) sample cup	
02457900	**Ring and Disk Set** Provides a plastic ring and ceramic disk for use in the 2.5 inch (64mm) glass sample cup. Used for translucent liquids or semi-solids where path length is related to color concentration and must be fixed. Does not include sample cup.	
	Spares	
02638300	**Replacement Lamp** (set of 3)	

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D25 L Colorimeter





Calibration standards, tile data card, standards care card, tool set, spare lamp, spare fuse, lens brush, lens cleaner, cables, sensor stand with sample clamp, printer paper, and manual are included as standard accessories.

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D25 L Options and Accessories

Catalog Number	"L" Sensor Options

D25-UVM

Ultraviolet (UV) Absorbing Filter

Includes UV absorbing filter on rotatable mount to include or exclude UV from specimen illumination for UV-induced fluorescence evaluations.

Illum/Observer	UVF in	UVF out
2 deg. C	L* 95.22 a* -1.75 b* 2.91	L* 96.13 a* -.28 b* -4.46

Example of optically brightened sample with and without UV filter.

D25-RAL

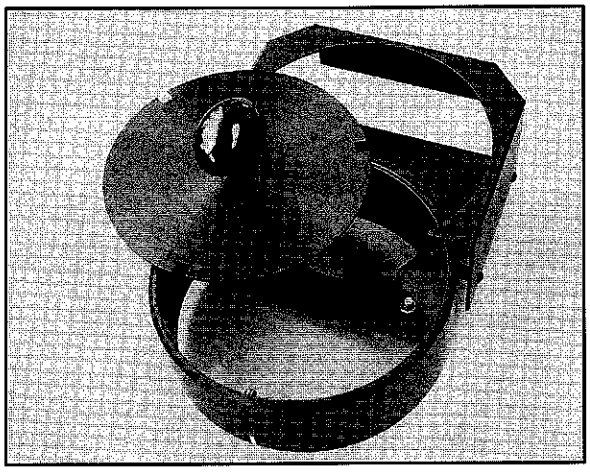
"L" Sensor Reduced Area Viewing

Includes a 2 inch (51mm) diameter port insert and specimen block.

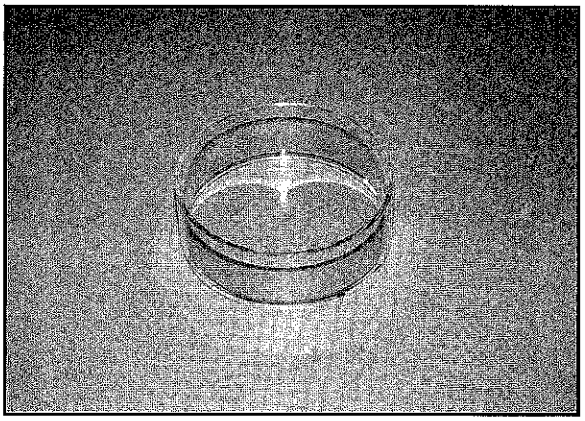
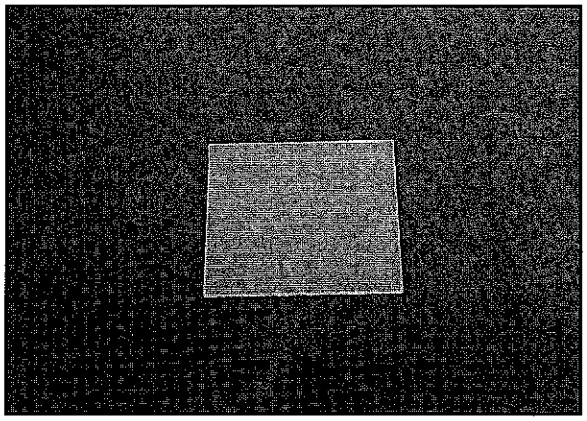
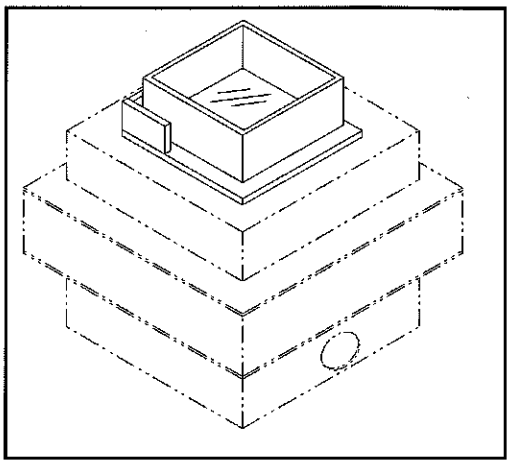
02860600

Sample Dish, Mounting Bracket and Sensor Modifications

(Cannot be retrofit.) Provides 6.5-inch (165mm) sample dish, with polycarbonate bottom, cover, mounting bracket, and specimen block for D25 L sensor in port up position. The polycarbonate window insert has been placed at the sensor opening. The black glass has been replaced by a light trap 5.75 inches (146mm) in diameter.

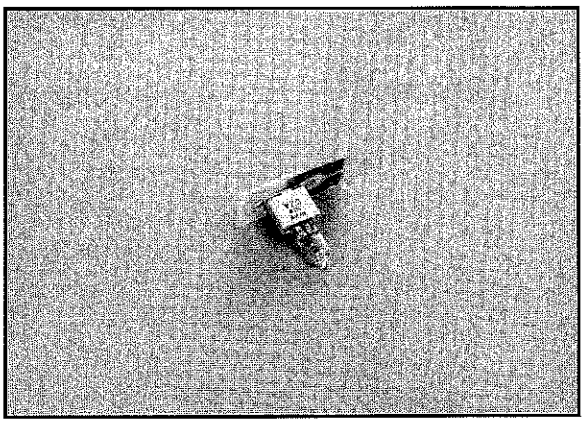


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Catalog Number	"L" Sample Devices	
04776700	**Glass Sample Cup, 5 inch (127mm)** Provides a 5-inch (127mm) sample glass cup for the analysis of large granular products and foods.	
12000120	**Cover Glass, Rectangular** Provides 4 inch (102mm x 102mm) square port cover glass for large port sizes to protect inside of sensor.	
CMR 1151	**7-inch Square Sample Dish and Speciment Block** Provides a modified specimen block with positioning guides and a 7-inch square plastic sample dish. Used for averaging measurements of textured food items.	

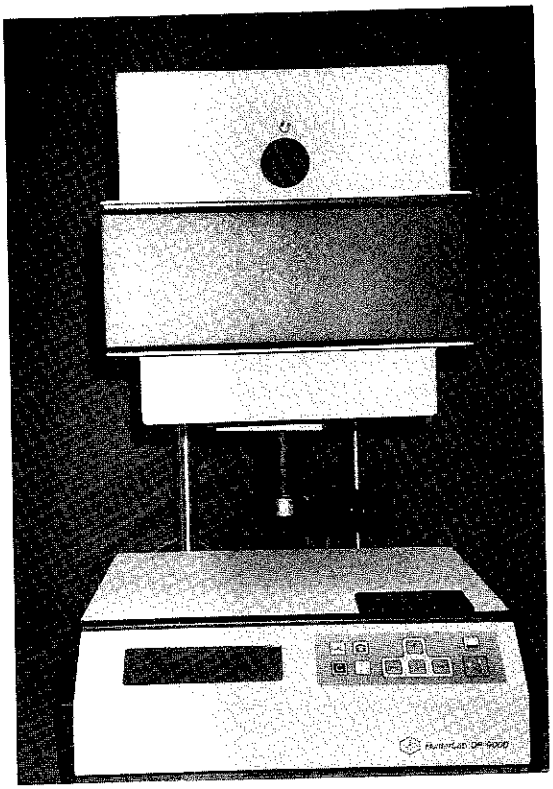
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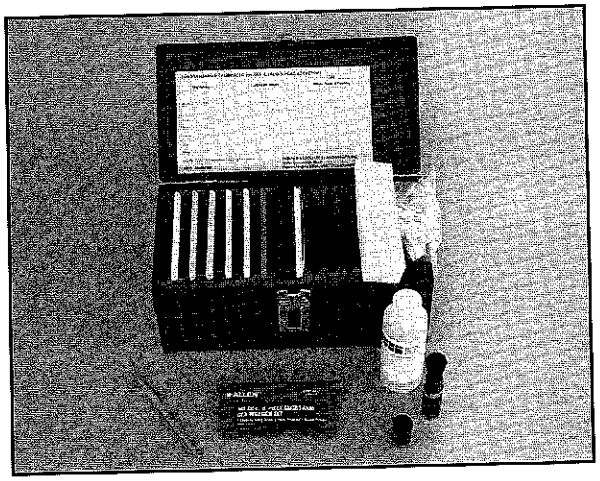
Catalog Number	Spares
02638300	**Replacement Lamp** (set of 3)



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D25 M Colorimeter





Calibration standards, tile data card, standards care card, tool set, spare lamp, spare fuse, lens brush, lens cleaner, cables, sensor stand with sample clamp, printer paper, and manual are included as standard accessories.

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D25 M Options and Accessories

Catalog Number

"M" Sensor Options

D25-UVM

Ultraviolet (UV) Absorbing Filter

Includes UV absorbing filter on rotatable mount to include or exclude UV from specimen illumination for UV-induced fluorescence evaulations.

Illum/Observer	UVF in	UVF out
2 deg. C	L* 95.22 a* -1.75 b* 2.91	L* 96.13 a* -.28 b* -4.46

Example of optically brightened sample with and without UV filter.

"M" Sample Devices

04662309

Port Insert: 1 inch (25mm)

Provides a 1-inch (25mm) port plate.

02662401

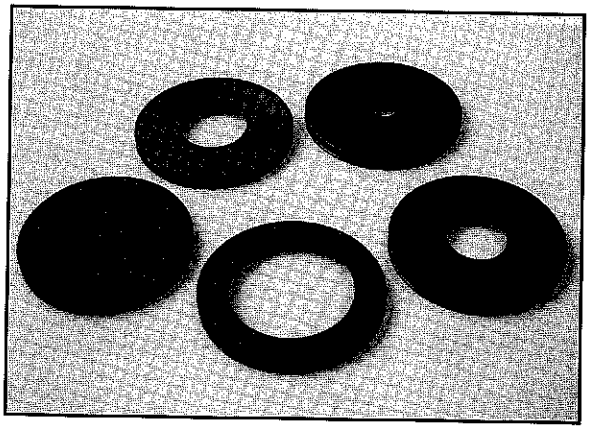
Port Insert: 1 inch (25mm) with Glass Insert

Provides a 1-inch (25mm) port plate. Glass insert protects inside of instrument from sample and airborne particles.

04662310

Port Insert: 1.25 inch (32mm)

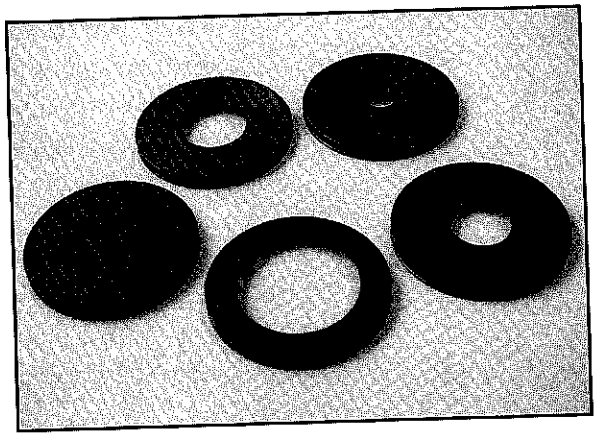
Provides a 1.25 inch (32mm) port plate.



Examples of port inserts.

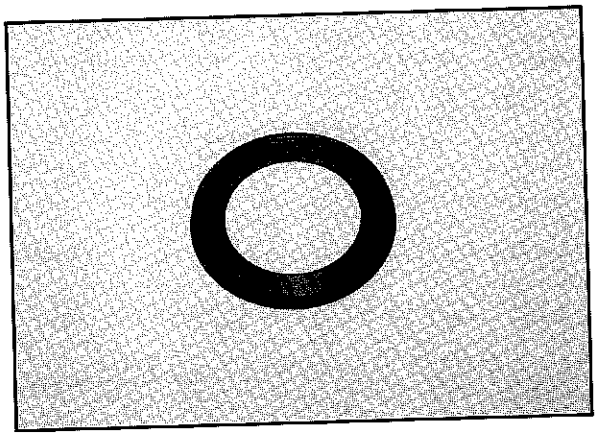
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Catalog Number	"M" Sample Devices
04662311	**Port Insert: 1.5 inch (38mm)** Provides a 1.5 inch (38mm) port plate.
04662312	**Port Insert: 2 inch (51mm)** Provides a 2 inch (51mm) port plate.
02662400	**Port Insert: 2 inch (51mm) with Glass Insert** Provides a 2 inch (51mm) port plate. Glass insert protects inside of instrument from sample and airborne particles.



Examples of port inserts.

04662100	**Port Insert, Wet Specimen, 2 inch (51mm) Diameter Port with 0.15 inch (4mm) "Lip" for Specimen Contact** Provides 2 inch (51mm) port plate with a raised ring just outside the port opening for placement of wet samples.

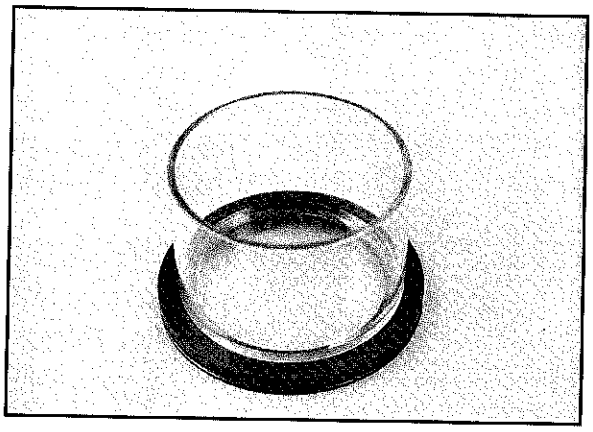


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Catalog Number	"M" Sample Devices

04720900

Glass Sample Cup
Provides a 2.5 inch (64mm) sample cup for the analysis of powders, granules, pellets, and translucent samples.

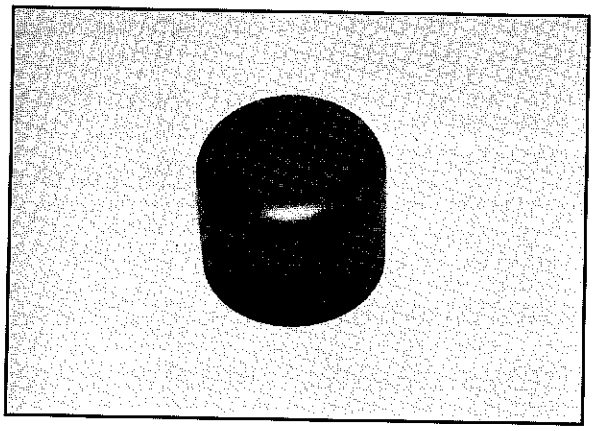


04662200

Port Insert for Sample Cup, 2.5 inch (64mm)
Provides a port plate designed to hold the sample cup in place.

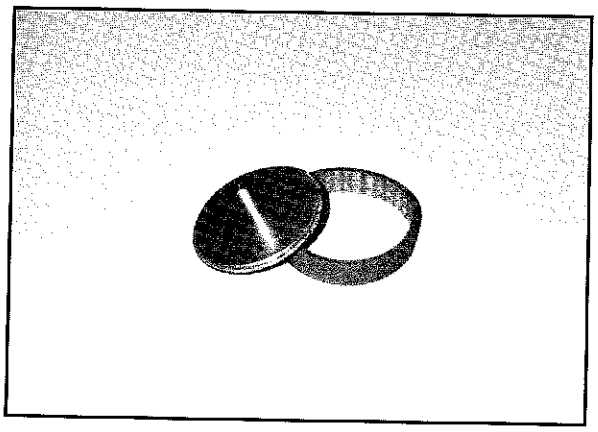
04400000

Sample Cup Opaque Cover
Provides a light trap to exclude the interference of external light on the 2.5 inch (64mm) sample cup.



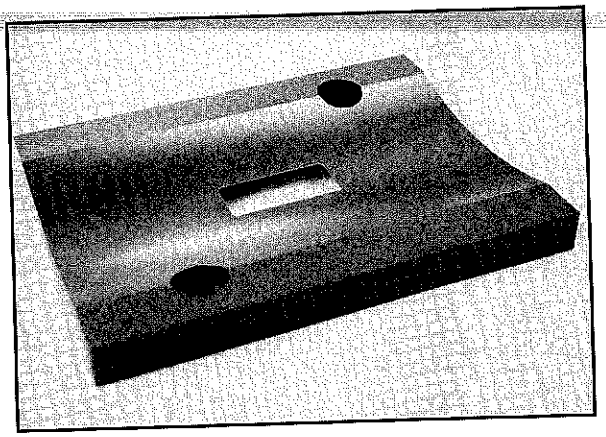
02457900

Ring and Disk Set
Provides a plastic ring and ceramic disk for use in the 2.5 inch (64mm) glass sample cup. Used for translucent liquids or semi-solids where path length is related to color concentration and must be fixed. Does not include sample cup.



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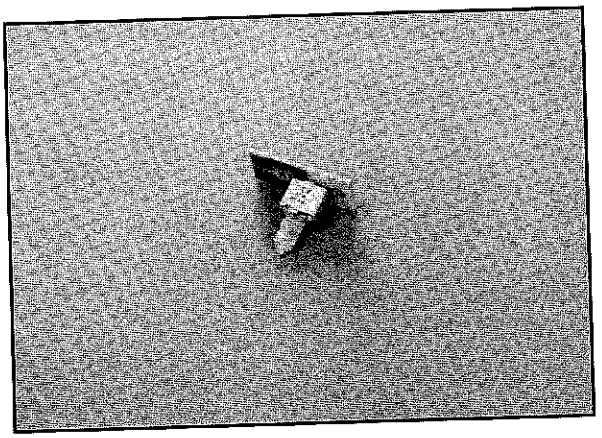
Catalog Number	"M" Sample Devices
CMR 542	**Bobbin Holder** Provides port plate for placement of 5.5 inch (140mm) radius bobbin.



CMR 1383	**4 inch (102mm) Square Sample Holder** Provides 4 inch (102mm x 102mm) square plexiglass sample holder with frosted sides for use with D25M sensor.

Spares

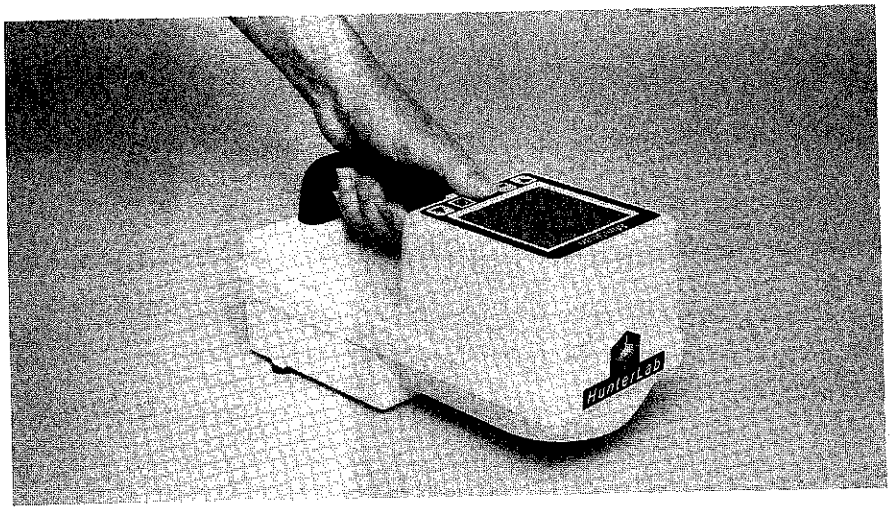
02638302	**Replacement Lamp** (set of 3)

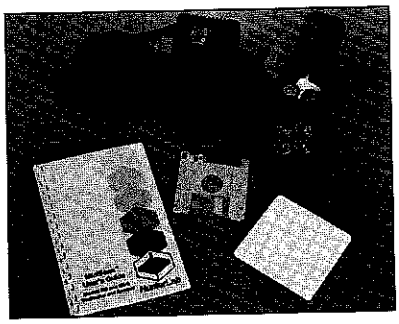


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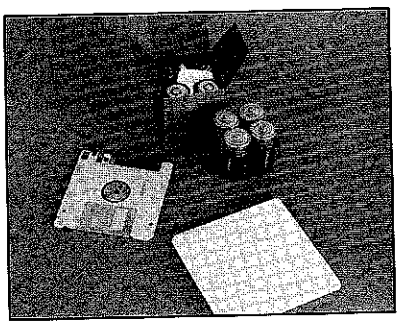
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MiniScan™





Calibrated white tile, standards care card, 120/220V AC adaptor, eight C-size batteries, heavy duty carrying case (not shown), light trap, and manual are included as standard accessories for spectral models.

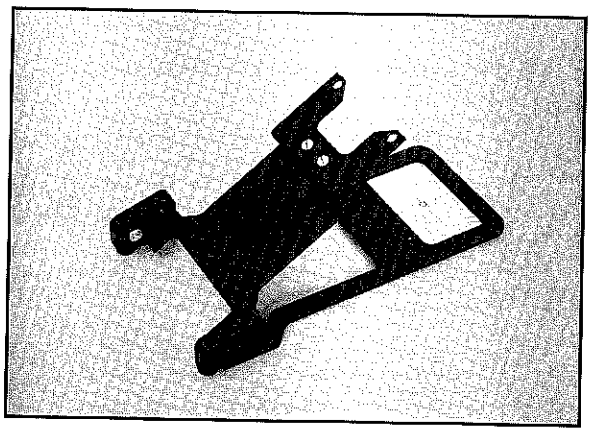


Calibrated white tile, standards care card, eight C-size batteries, light trap, and manual are included as standard accessories for basic models.

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MiniScan Accessories

Catalog Number	Accessories
D02-1001-991	**45/0 SAV Positioning Base Plate** Provides the standard stapler type positioning device with template for 45/0 SAV instruments.
D02-1001-993	**Diffuse SAV Positioning Base Plate** Provides the standard stapler type positioning device with template for diffuse/SAV instruments.

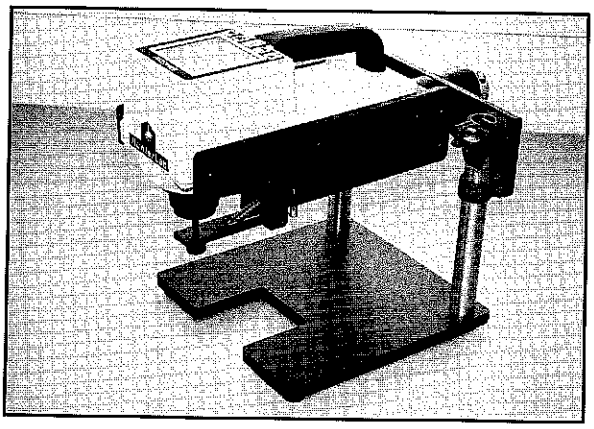


Example of Positioning Base Plate

A13-1001-151 **Heavy Duty Carrying Case (Standard with MS and MS/S models)**

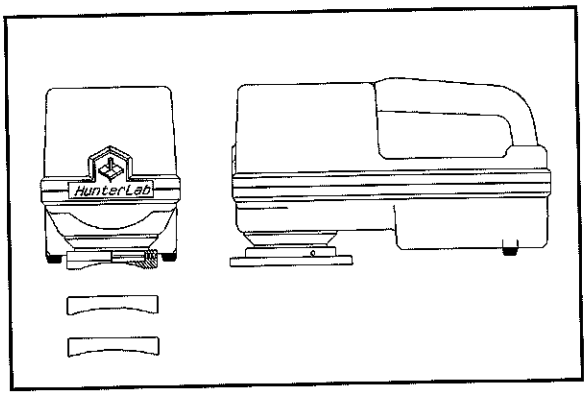


D02-1002-702 **MiniScan Bench-Top Stand** Provides a bench-top stand with spring-load sample clamp for any MiniScan. Allows port-up or down measurements. May be ordered separately.



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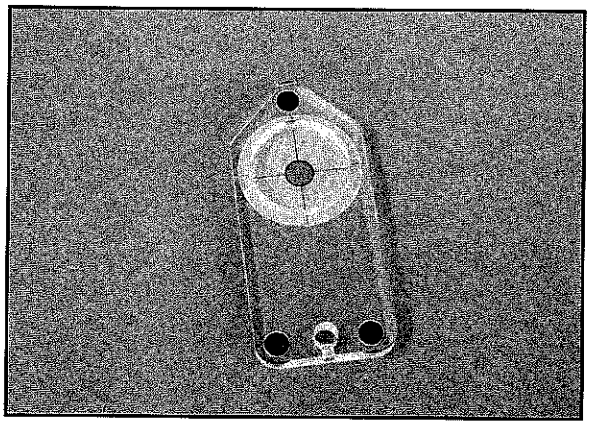
Catalog Number	Accessories
C02-1002-030	**45/0 LAV Fiber Package Adaptor Assembly** Includes a special nose cone assembly and 3 removable adaptors for 6 inch (152mm), 10 inch (254mm), and 12 inch (305mm) package diameters. May be installed by the customer. For use with 45/0 LAV instruments.



CMR 1391	**Adaptor Plate for 3-1/2 inch (89mm) Diameter Fiber Packages** Provides an adaptor plate to accommodate 3-1/2inch (89mm) diameter fiber packages for measurement. Requires PN C02-1002-030 (Fiber Package Adaptor). For use with 45/0 LAV instruments.
CMR 1440	**Port Adaptor for 13-inch (330mm) Diameter Fiber Packages** Provides a removable port adaptor to assist in positioning MiniScan on 13-inch (330mm) diameter fiber packages or bobbins. Requires PN-C02-1002-030 (Fiber Package Adaptor). For use with 45/0 LAV instruments.

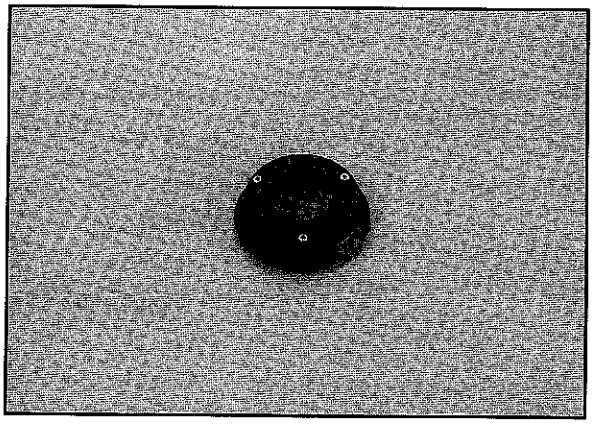
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Catalog Number	Accessories
CMR 1170	**45/0 SAV Hand-Held Positioning Device** Hand-held acrylic device to accurately position the MiniScan over small targets.
CMR 1171	**Diffuse/SAV Hand-Held Positioning Device** Hand-held acrylic device to accurately position the MiniScan over small targets.
CMR 1172	**45/0 LAV Hand-Held Positioning Device** Hand-held acrylic device to accurately position the MiniScan over small targets.
CMR 1173	**Diffuse/LAV Hand-Held Positioning Device** Hand-held acrylic device to accurately position the MiniScan over small targets.



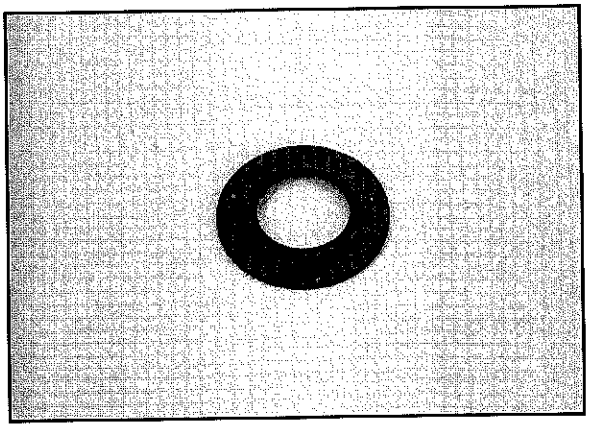
Example of hand-held positioning device.

A02-1002-129	**45/0 LAV Replaceable Nose Cone with Cover Glass Assembly** Includes a special nose cone with a removable glass port cover assembly. May be installed by the customer. (The nose cone with cover glass is intended for permanent use.)

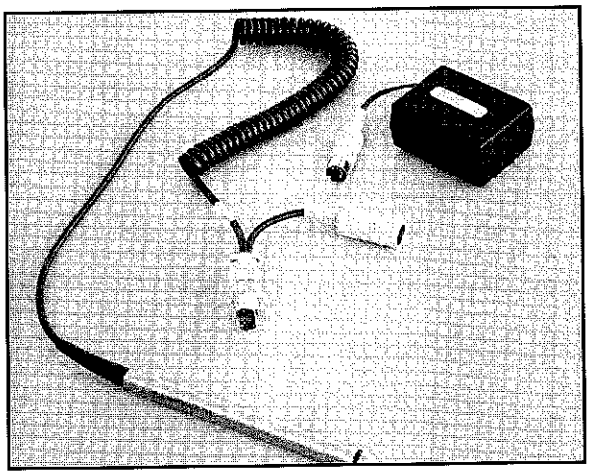


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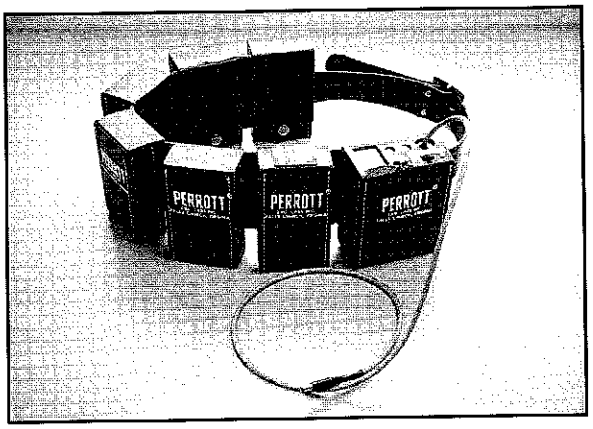
Catalog Number	Accessories
A02-1002-137	**Replacement 45/0 LAV Cover Glass** Replacement glass port cover for use with MiniScan nose cone.



CMR 1386	**Bar Code Reader Adaptor** Provides modification of MS/T-2500L MiniScan to add 2 decimal display readout and input of sample ID via bar code reader attached to RS-232 port. Includes bar code reader. **NOTE:** MiniScan MS/T-2500L with CMR 1386 will not be compatible with existing MS-UTIL and Color Analyst packages.



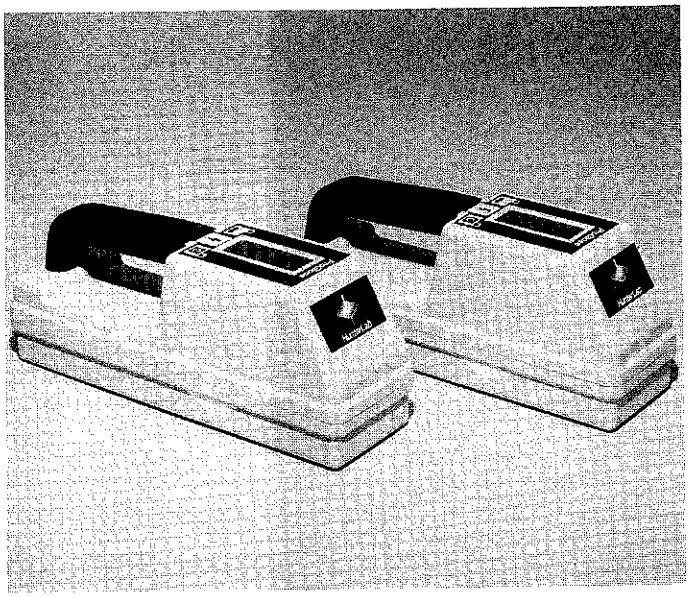
CMR 1453	**Battery Pack and Belt** A rechargeable battery belt for any MiniScan. Provides two to three times battery capacity of 4 high capacity alkaline batteries. Includes built-in, 4-hour recharger, AC cord, and high quality leather belt. Weight - 14 lbs.

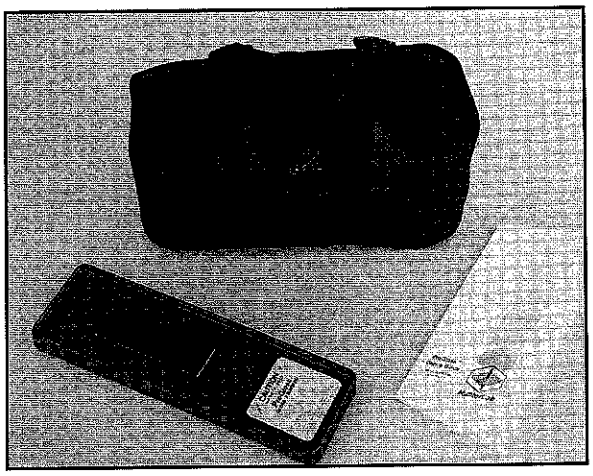


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ProGloss™



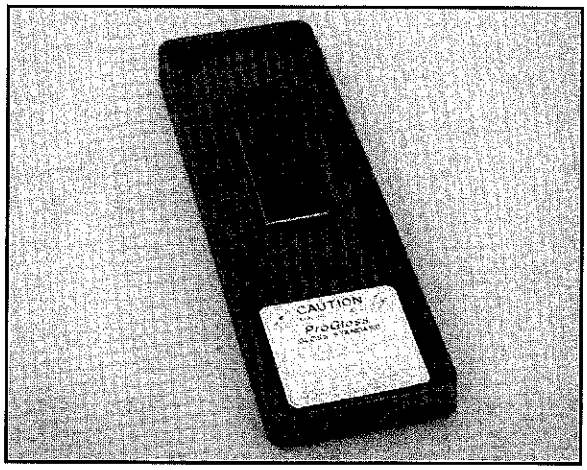


Calibration standard, standards care card, carrying case, two-9V batteries, and manual are included as standard accessories.

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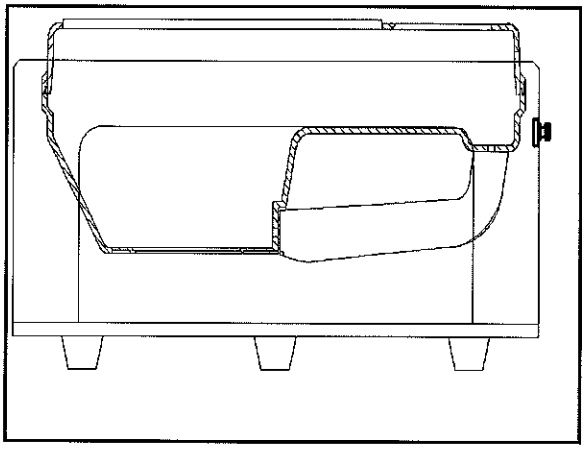
ProGloss Glossmeter

Catalog Number	Accessories
D02-1001-841	**Replacement Standard and Holder Assembly.**



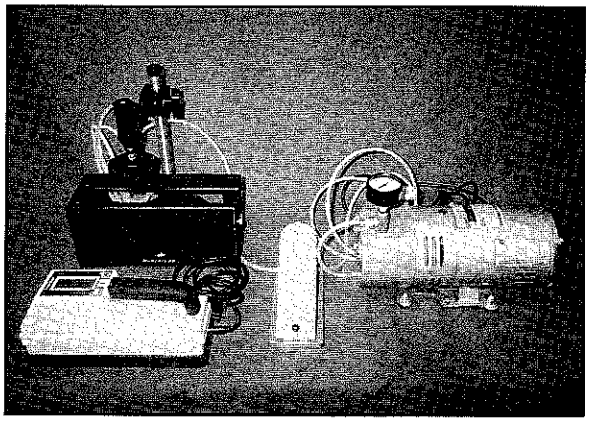
CMR 1417

Bench-Top Stand
Provides a port-up or port-down stand with sample clamp for use with PRO-3 or PRO-60.



CMR 1454

Bench-Top Stand with Vacuum Sample Holder
Provides a port-up or port-down stand with vacuum sample holder, vacuum cylinder, foot switch, and hoses for ProGloss.

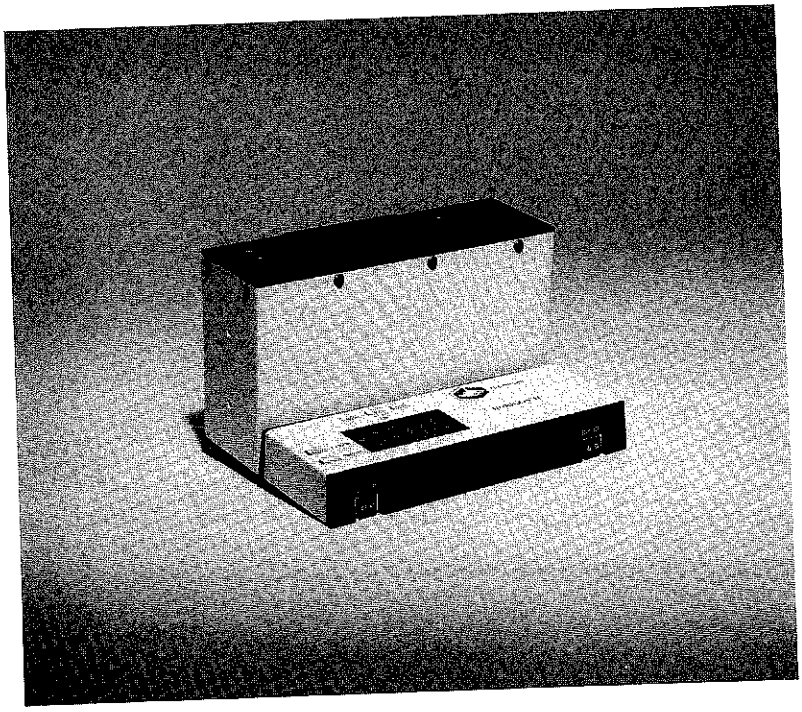


CMR 1431

Modification to Measure Metals
Adjustment to PRO-60 to measure gloss on metals. Use of modification precludes use on non-metal products.

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DORIGON® II

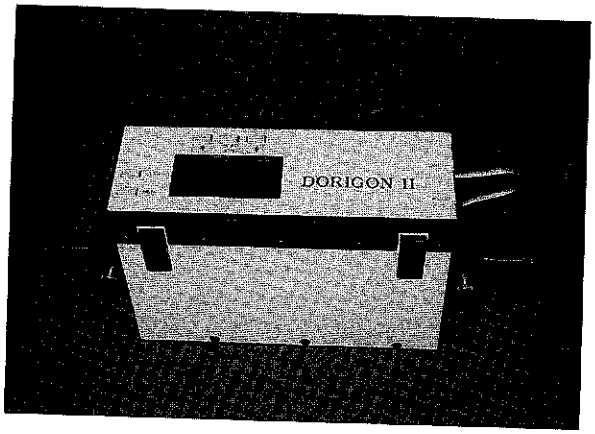


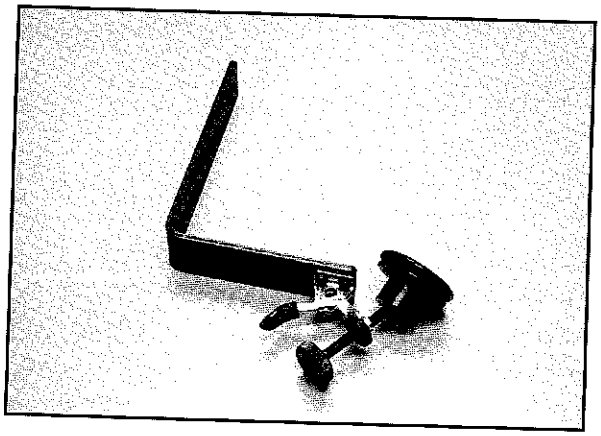
Not pictured - reference tiles, AC charger/ adaptor, heavy duty carrying case, cable, and manual are included as standard accessories.

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DORIGON II Accessories

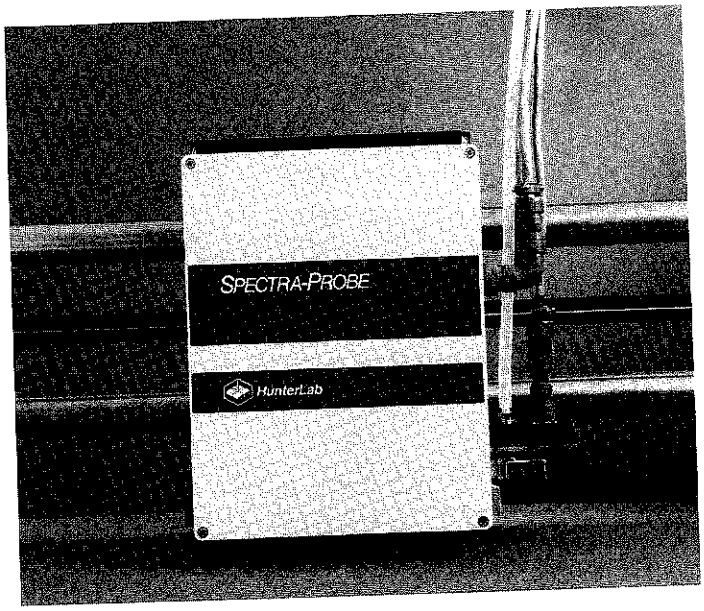
Catalog Number	Accessories
CMR 1372	**15 Degree Haze** Provides for measurement, display storage, and output of 15° Haze.
L02-1003-665	**Dual Handles with READ Switch and Base Plate** Provides two handles, READ switch on right handle, and wide base plate attachment.
L02-1003-666	**Removable Sample Clamp with O-Ring** Provides a removable sample clamp assembly for use in bench-top configuration.
CMR 1379	**Sample Positioning Stage** Attachment that provides an adjustable, flat stage for positioning of large standards or flat samples.





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SPECTRA-PROBE®

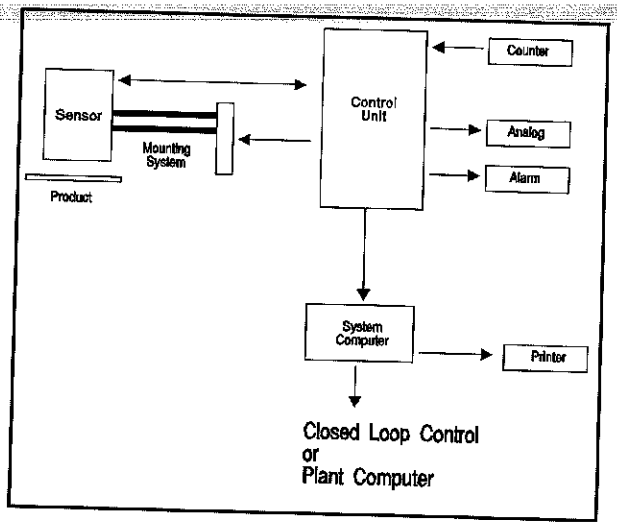


Not pictured - Control Unit, Calibration Standards, spare lamp, tool kit, fuse, lens cleaner, cables, installation drawings, and manual are included as standard accessories.

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SPECTRA-PROBE In-line System Options

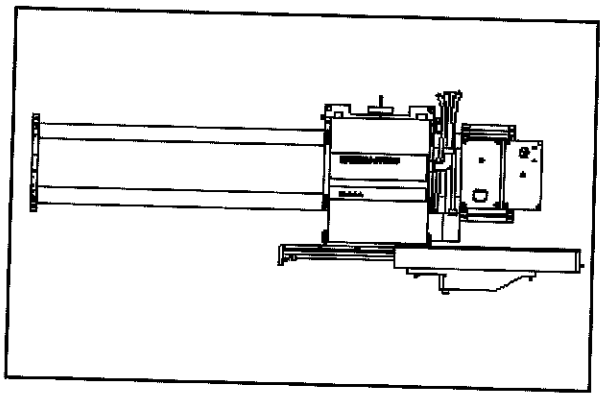
Catalog Number	System
L02-1005-333	**SPECTRA-PROBE System** Consists of SPECTRA-PROBE Sensor, Control Unit, Computer Interface Unit, personal computer with HunterLab software package, DOS, Windows, Color CRT Display, Custom Graphics card, Custom 4-way RS-232 card, calibration standards, Interconnecting Cables, Instruction Manuals, Start-up Support.



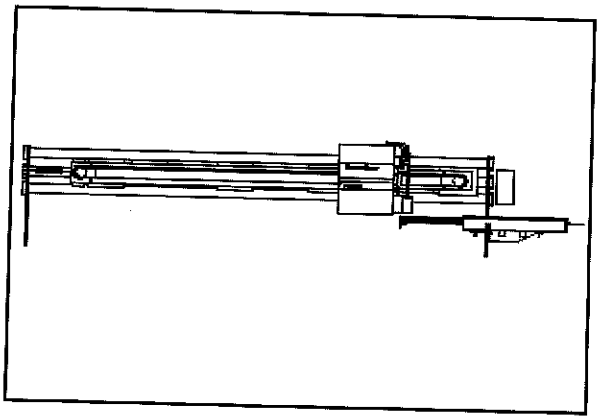
System Configuration Diagram

Mounting Systems

L02-1005-336	**Fixed Point Pneumatic Retraction System with Triple-Tile Holder** 2-rail fixed point mounting system with standard length of 5 feet. Includes pneumatically actuated, triple tile holder parallel to rails for off-line reference and automatic instrument standardization.

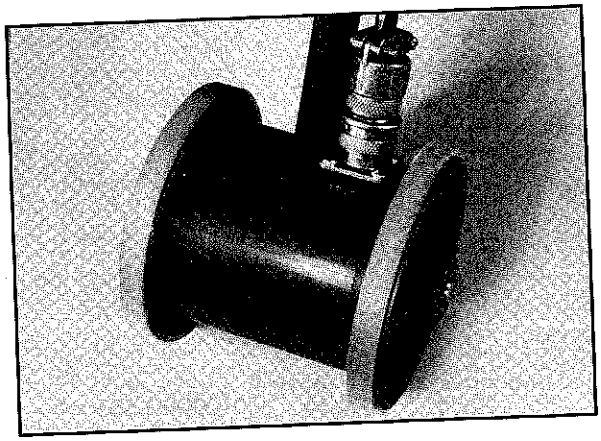


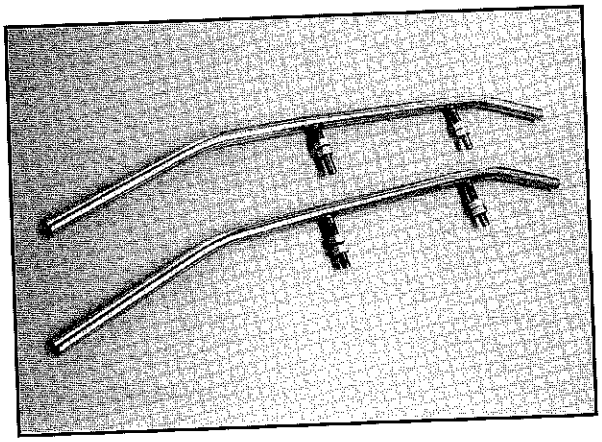
D02-1003-395	**Traversing System with Triple Tile Holder** 3-rail traversing mounting system for scanning products up to 84 inches/2 meters wide. Includes selectable scanning patterns, sensor edge detectors, triple tile holder, off-line reference system and automatic instrument standardization.



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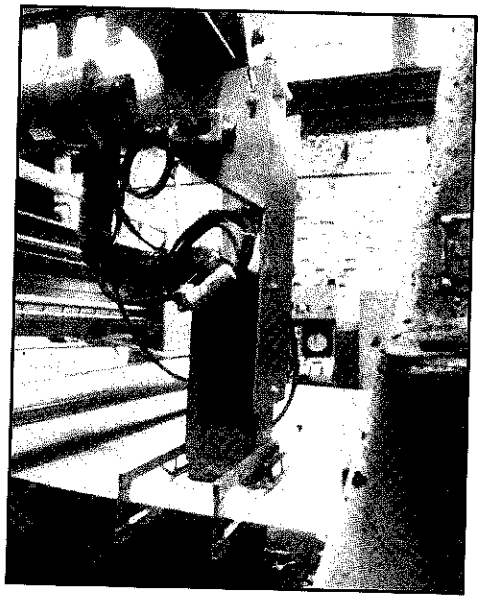
Catalog Number	Options
A13-1005-329	**Analog Output Card (4 Channels)** Provides 0-10V analog voltage or 4-20mA current signals to represent any measured whole scale or color difference value for alarm, recorder, or other device.
A13-1005-332	**Length Counter, Interface and Cable** Roller in contact with product generates electrical pulses corresponding to product length.
SP-1071	**Topside Product Guides** Stainless steel guide bars to stabilize product.



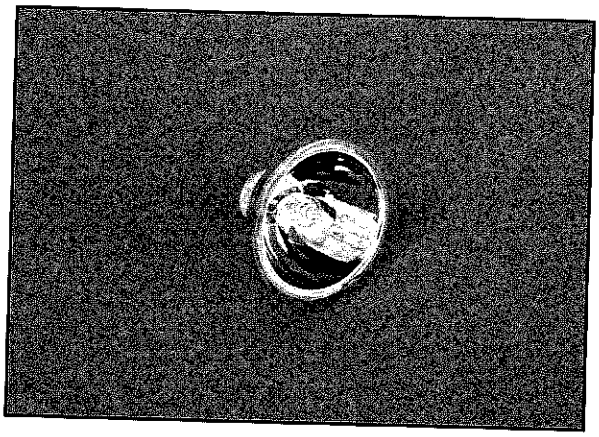


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Catalog Number	Options
SP-1072	**Product Guides, Backing Plate, and Tile Holder** Stainless steel guide bars, dual 18" c-frames, backing tile holder, and white porcelain backing plate.

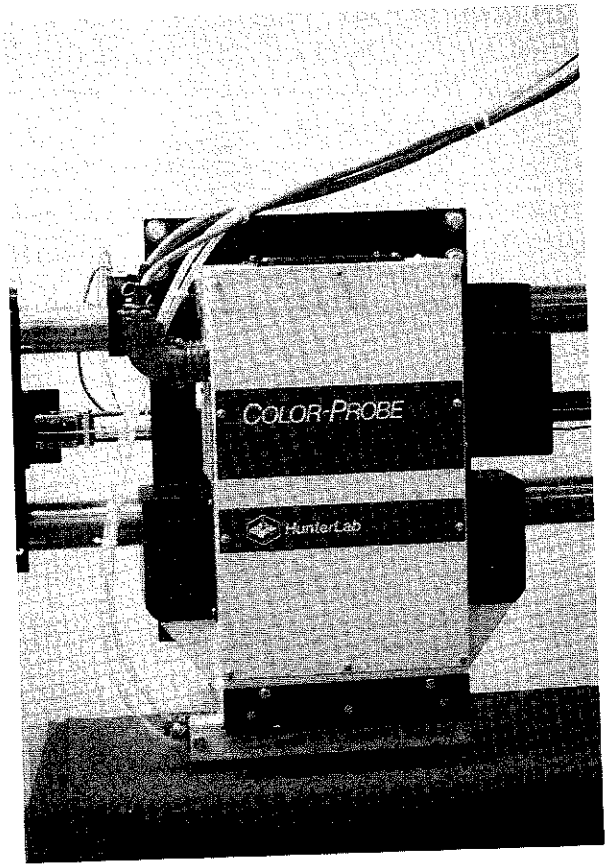


12251675	**Replacement Lamp**



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COLOR-PROBE™ 01

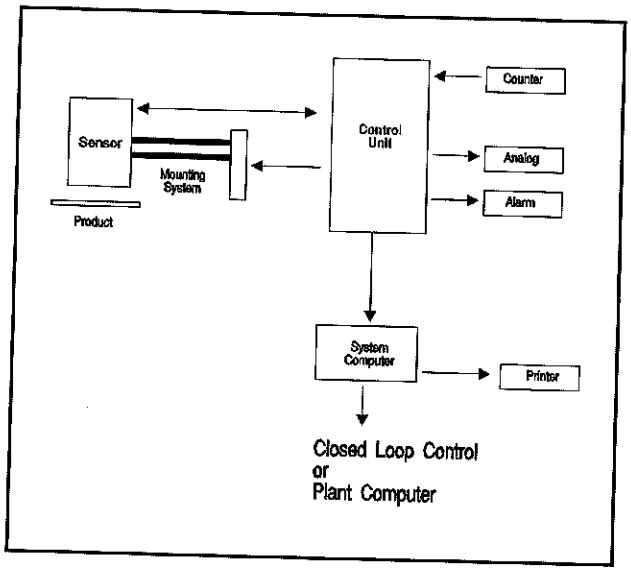


Not pictured - Control Unit, Calibration Standards, spare lamp, tool kit, fuse, lens cleaner, cables, installation drawings, and manual are included as standard accessories.

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COLOR-PROBE 01 In-Line System Options

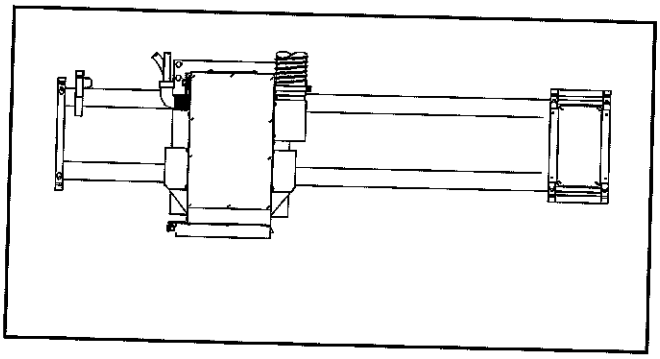
Catalog Number	System
CP-1000	**COLOR-PROBE 01 System** COLOR-PROBE Model 01 Sensor, Control Unit, Computer Interface Unit, personal computer with HunterLab Software Package, DOS, Windows, Color CRT Display, Custom Graphics Card, Custom 4-Way RS-232 Card, Calibration Standards, Interconnecting Cables, Instruction Manual, and Start-up Support.



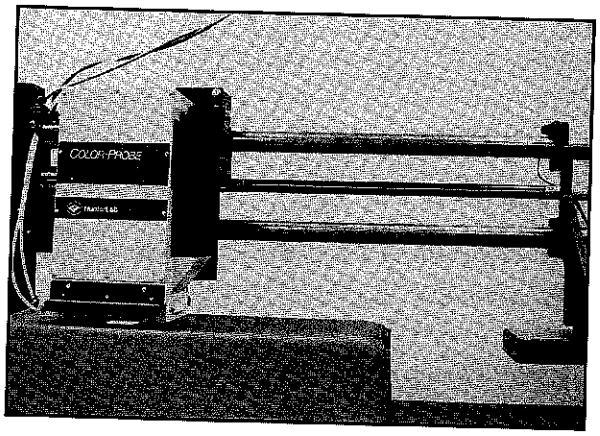
System Configuration Diagram

Mounting Systems

CP-1080	**Fixed Point Pneumatic Retraction System** 2-rail fixed point mounting system with standard length of 5 feet. Requires manual instrument standardization. Includes clip-on tile holder. Allows manual, computer, or external commands for sensor positioning.

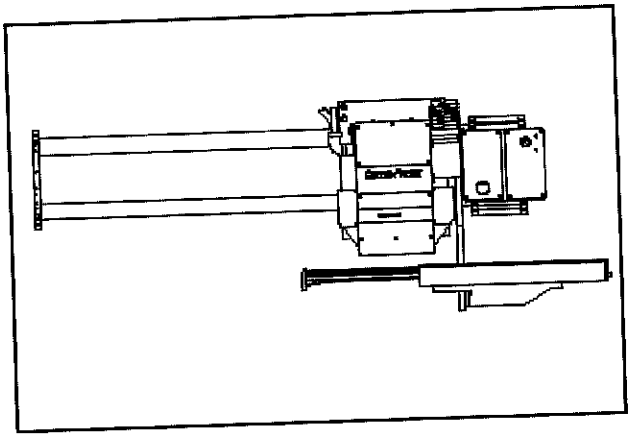


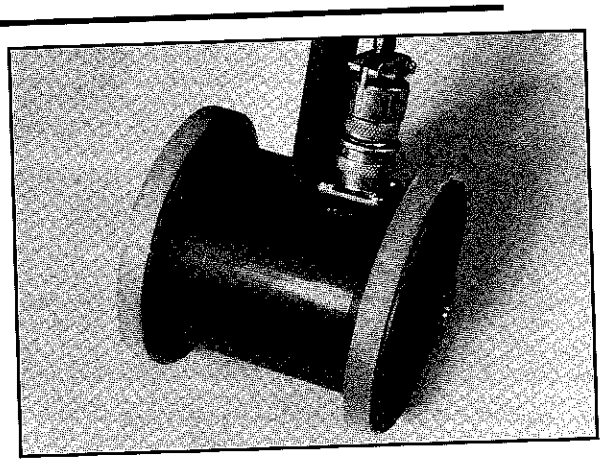
CP-1081	**Fixed Point Pneumatic Retraction System with One Sealed Tile Holder** 2-rail fixed point mounting system with standard length of 5 feet. Includes one pneumatically actuated, covered, off-line reference tile for automatic instrument standardization.



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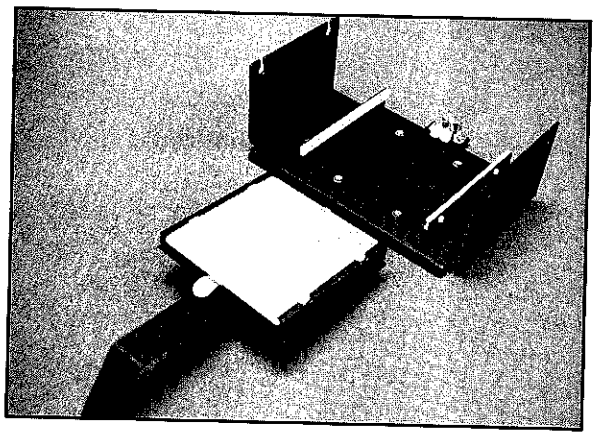
Catalog Number	Options
CP-1083	**Fixed Point Pneumatic Retraction System with Triple Tile Holder** 2-rail fixed point mounting system with standard length of 5 feet. Includes pneumatically actuated, triple tile holder parallel to rails for off-line reference and automatic instrument standardization.
CP-1040	**Alarm Relay Card (4 Relays)** 4 Form C relay contacts for out-of-tolerance alarms. Contact energized in non-alarm state.
CP-1041	**Analog Output Card (4 Channels)** Provides 0-10V analog voltage or 4-20mA current signals to represent any measured whole scale or color difference value for alarm, recorder, or other device.
CP-1042	**Length Counter, Interface and Cable** Roller in contact with product generates electrical pulses corresponding to product length.



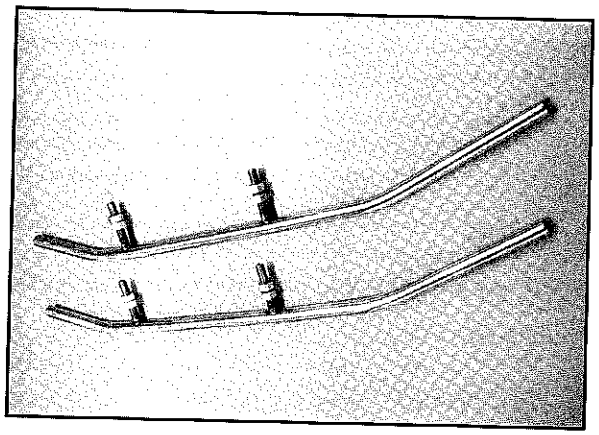


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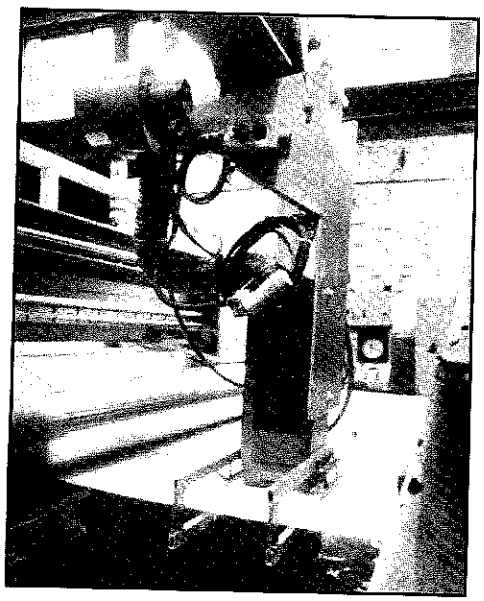
Catalog Number	Options
CP-1070	**Clip-on Tile Holder** Snap-on device to properly position calibration standard during manual calibration.



CP-1071	**Topside Product Guides** Stainless steel guide bars to stabilize product.

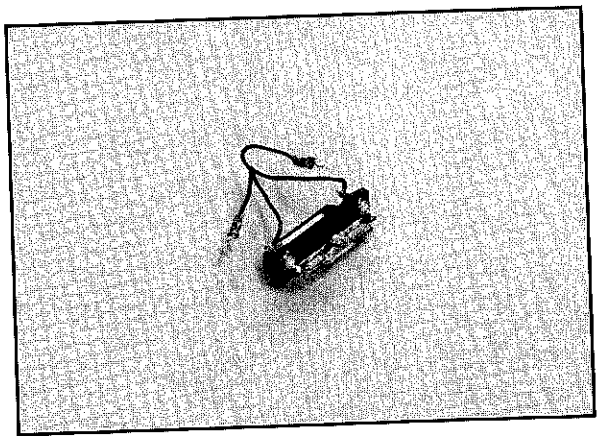


CP-1072	**Product Guides, Backing Plate and Tile Holder** Topside and bottomside stainless steel guide bars, dual 18" C-frame, backing tile holder, and white porcelain backing plate.



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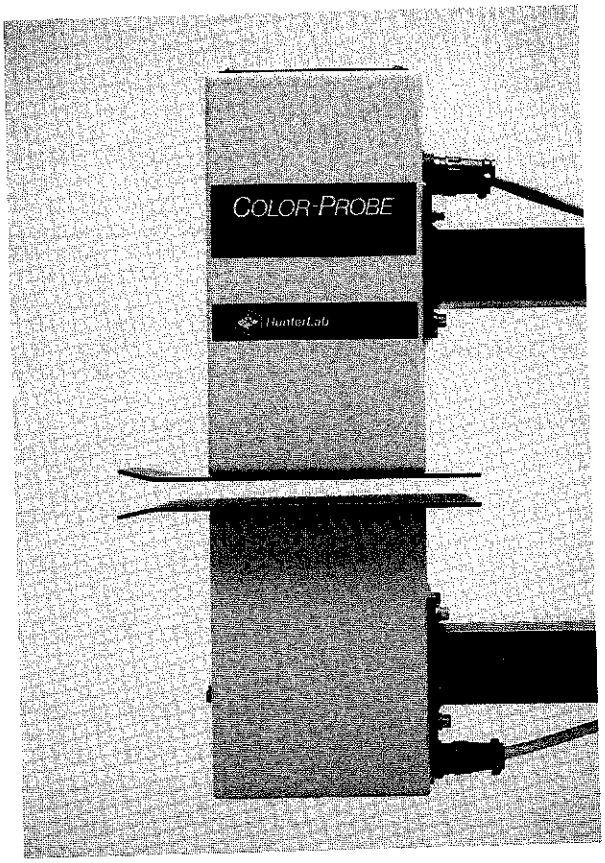
Catalog Number	Spares
02186500	**Replacement Lamp** (set of 2)



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COLOR-PROBE™06

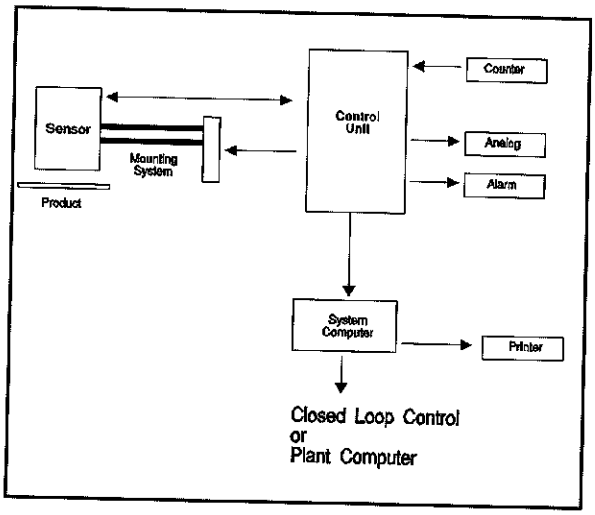


Not pictured - Control Unit, Calibration Standards, spare lamp, tool kit, fuse, lens cleaner, cables, installation drawings, and manual are included as standard accessories.

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COLOR-PROBE 06 In-Line System Options

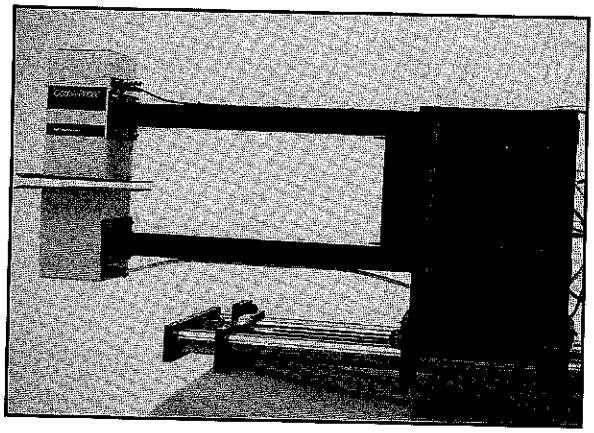
Catalog Number	System
CP-6000	**COLOR-PROBE 06 System** COLOR-PROBE Model 06 Sensor, Control Unit, Computer Interface Unit, personal computer with HunterLab Software Package, DOS, Windows, Color CRT Display, Custom Graphics Card, Custom 4-Way RS-232 Card, Calibration Standards, Interconnecting Cables, Instruction Manual, and Start-up Support.



System Configuration Diagram

Mounting Systems

CP-6080	**Fixed Point Pneumatic Retraction System** 2-rail fixed point mounting system with standard length of 5 feet. Requires manual instrument standardization. Allows manual, computer, or external commands for sensor positioning.



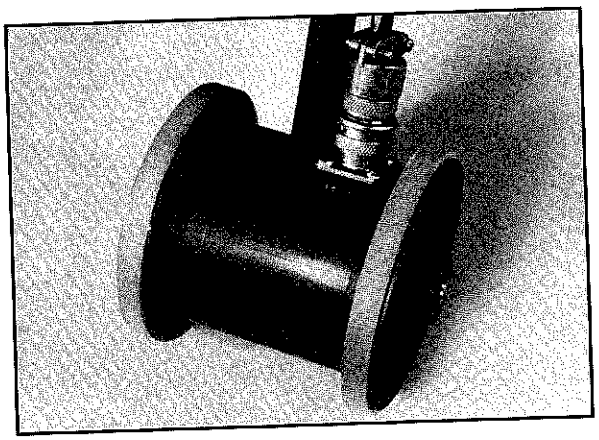
Horizontal product orientation.

Options

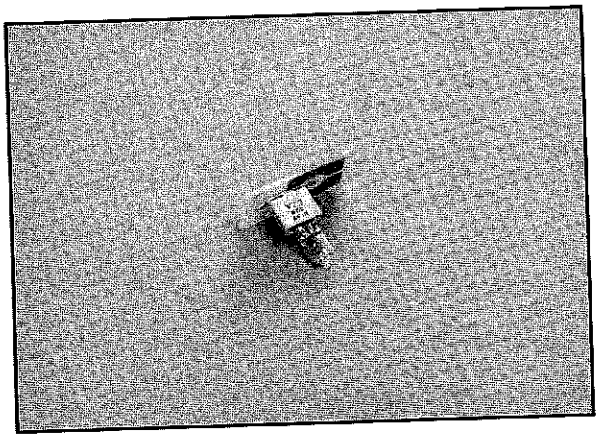
CP-1040	**Alarm Relay Card (4 Relays)** 4 Form C relay contacts for out-of-tolerance alarms. Contact energized in non-alarm state.
CP-1042	**Analog Output Card (4 Channels)** Provides 0-10V analog voltage or 4-20mA current signals to represent any measured whole scale or color difference value for alarm, recorder, or other devices.

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Catalog Number	Options
CP-1042	**Length Counter, Interface and Cable** Roller in contact with product generates electrical pulses corresponding to product length.



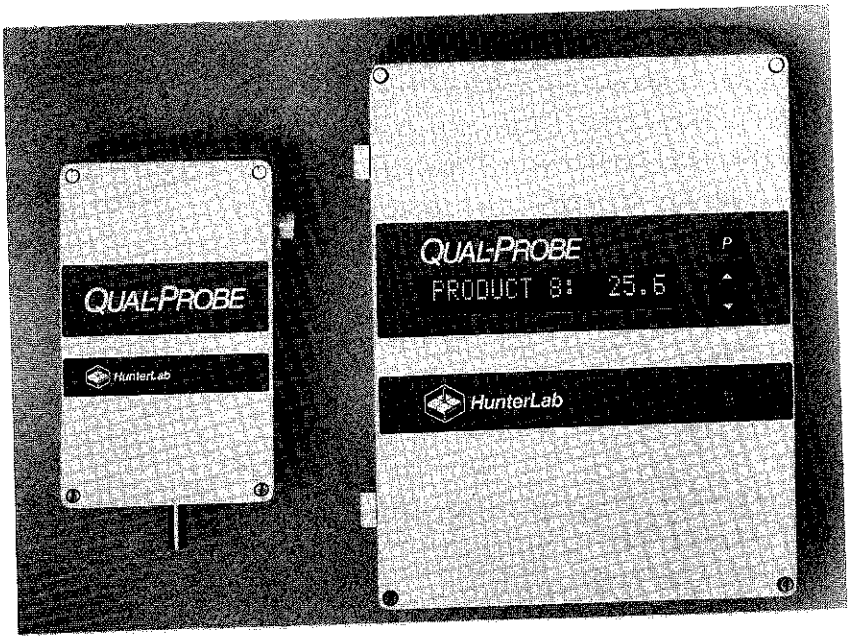
02638300	**Replacement Lamp** (set of 3)



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QUAL-PROBE®

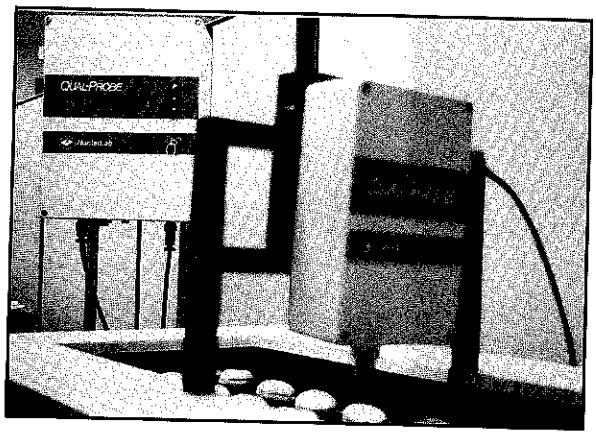


Not pictured - calibrator, keys, tool kit, cables, installation drawings, and manual are included as standard accessories.

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QUAL-PROBE In-Line System Options

Catalog Number	System
QP-2000	**QUAL-PROBE System** Consists of QUAL-PROBE Sensor, Operator Station, standard mounting plate for the sensor, calibration accessory, instruction manual, installation drawings, 10 ft. (3m) power cable, 100 ft. (30m) sensor cable, and one day on-site start-up support. The QUAL-PROBE Operator Station supports up to three Sensors total. Assuming that a core system is ordered including a Sensor, two additional Sensors can also be ordered. The outputs from the Sensors are sequentially viewed on the display using the "P"roduct button.



QP-2006	**QUAL-PROBE Additional Sensors (up to 2 sensors)** Consists of additional sensor, sensor interface board, and internal connector harness, 100 ft. (30m) sensor cable, manual addendum, and one-day, on-site start-up support.

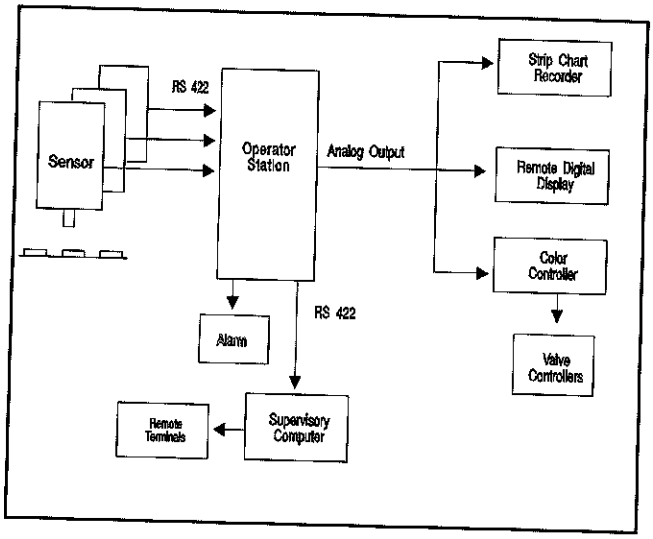


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Catalog Number	Operator Station Options
QP-2040	**Alarm Module** Consists of alarm relay card, 10 ft. (3m) cable and installation instructions for providing Form C (change over) relay contacts to a remote device to indicate out-of-specification product and system diagnostics. Each alarm module has output capability for 3 sensors. **NOTE:** Remote alarm device is customer supplied. One is required per Operator Station.
QP-2044	**Remote Display: Small Character** Provides a three character, 0.5-inch (1.27cm) LCD remote display of the results from one sensor. Includes display with rugged enclosure, and manual addendum. **NOTE:** Requires QP-2060 Analog Output.

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Catalog Number	Operator Station Options
QP-2050	**Supervisory Computer, Remote Display and Software** The supervisory Computer consists of a computer with EGA color monitor, a custom software package, Computer Interface Unit, Serial Communications package, 100 ft. (30m) cable, and Remote CRT Display. The computer must be located in a clean environment such as an office or QC lab. The CRT Display, used as a remote monitor with the Supervisory Computer, is environmentally sealed to be located near the production line. Product setups can be created, modified, and downloaded for 4 operator stations and 8 sensors. Each production line can be monitored for color trends over time, significant events, and sensor status. SPC software provides summary statistics (mean, standard deviation, percent out-of-tolerance) and Trend Charts (X-bar charts, Range Charts, and histogram plots) for each product.
QP-2052	**Serial Communications Package** Internal to the Operator Station, this module provides bi-direction serial communication with the QUAL-PROBE system. It uses the RS422 electrical specification, 100 ft. (30m) Serial Interface Cable, Manual Addendum, and protocol that HunterLab will supply the user. One module per Operator Station.



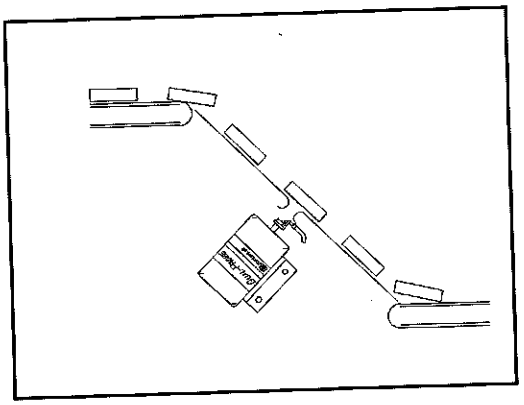
System Configuration Diagram

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Catalog Number	Operator Station Options
QP-2060	**Analog Output: 0-10V or 4-20mA for Sensor 1, 2, or 3** Provides initial Operator Station module for Sensor 1, 2, or 3 that supplies 0-10V or 4-20mA output and 10ft. (3m) cable for interface to Remote Display (QP-2044), Multiple Pen recorder, or an external process controller.

Sensor Options

QP-2075	**Sensor Mount: Manually Positionable Top** Provides detented mount for positioning the sensor in a fixed position over the production line.
QP-2076	**Sensor Mount: Bottom-Side** Provides custom mount configured to the line in question. The mount permits periodic manual retraction of the sensor from beneath the line for calibration and maintenance. Includes hardware for bottom mount, air brush assembly, and installation instructions.



Example of bottom-side mount

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Catalog Number	Sensor Options
QP-2084	**Water-Cooled Mounting Plate** Provides a water-cooled mounting plate for the sensor. Recommended for installations where the ambient temperature exceeds 50 degrees C. Includes mounting plate, heat shield, and installation documentation. Requires a source of running water. One required for each sensor.
QP-2088	**Air Brush Accessory** Provides strong air flow over sensor tip to keep tip free of debris. Required for those customers who design own bottom sensor mount. Requires a continuous source of clean compressed air.

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