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RIFOCS CORPORATION

600R SERIES MODULAR SYSTEM





Modularity = Flexibility

The RIFOCS 600 Series accommodates a wide range of individual test requirements. From small, compact test sets to multi-channel data acquisition systems exceeding 100 channels, the modular structure provides considerable economy, power and space savings over multiple benchtop units. The 600 Series modular instruments include a full range of power meters, LED/Laser Sources, Launch Conditioners and Attenuators. Up to 120 individual channels (and/or modules) can be controlled per GPIB address, eliminating GPIB "bottleneck" that can exist in large test systems. The economy in the system allows the test engineer to specify as many channels as required without the need for an optical switch, thus eliminating stability problems, repeatability errors and reducing overall cost.

The receiver modules 675RE are fully self-contained power meters and have fast ranging and readout capacity of 15 readings per second. The wide dynamic range of +3dBm to -80dBm is sufficient for demanding applications, such as Return Loss Measurements or Launch Condition Analysis (in conjunction with models 611R/612R). The proprietary front-end amplifier serves as a high speed optical to electrical converter with 20kHz bandwidth and fully calibrated analog output. Optical switching speed may be directly observed on oscilloscopes. Connector discontinuity monitoring is easily accomplished when using the 675RE modules. The analog output of each module can be switched by remote control to any of four bus connections, this scheme allows for simple matrix switching to an oscilloscope or other digitizing equipment.

- ***Multi-Channel Testing***
- ***Product Qualification Testing***
- ***Environmental Testing***
- ***Launch Condition Analysis***
- ***Multimode and Singlemode***
- ***GPIB / Automated Testing***
- ***Component Testing***
- ***Fiber Optic Switch Testing***
- ***Connector Testing***
- ***Stability Testing***

DESIGNED FOR GPIB SYSTEMS

Automated Test Systems Configured to Any Size



Modularity = Flexibility



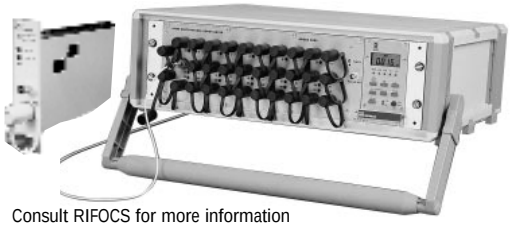
650,660 Series 677R 671R 699R

Phone 805/389-9800 FAX 805/389-9808

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SYSTEM MODULES

OPTICAL POWER METERS

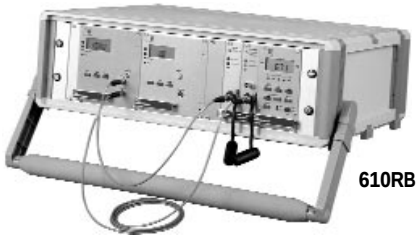


Consult RIFOCS for more information
on OPM modules with detached, remote sensor heads.

MODULE	675RE	677R	678R	676RE	674R
Detector	InGaAs,	Si	InGaAs	InGaAs	Si
Calibration Wavelengths	850,1300,	630,780,	850,980,1300,	850,1300,	630,780,
	1550nm	850nm	1480,1550nm	1550nm	850nm
Range (high;low)	+3;-80dBm	+3;-77dBm	+20;-60dBm	+3;-75dBm	+3;-75dBm
Number of Channels	1	1	1	32	32
Single Channel Scan Rate	900 readings per minute			900 readings per minute	
Multiple Channel Scan Rate	60 / (n x 0.02) readings per minute [1,2]			60/(n x 1.5)readings per minute [1,3]	
Module Width	6E	6E	6E	70E	70E
Optical Connector Interface	SOC	SOC	SOC	SOC	SOC

[1] n = number of channels [2] When n = 1, 2, or 3, the rate is 900 readings per minute per channel. [3] n > 1

LAUNCH CONDITION ANALYZER



610RB

MODULE	611R FAR-FIELD	612R NEAR-FIELD
Range	-0.5 to +0.5NA	-150µm to +150µm
Resolution	0.003 NA	0.2µm
Input Interface	Fixed FC-PC receptacle, will also accept ST and DIN	
Module Width	12E	12E

The 610RB Launch Condition Analyzer System contains: 611R Far-Field Scanner Module, a 612R Near-Field Scanner Module, 675RE Optical Power Meter Module, 655R LED Source (1300nm), 671R Controller/GPIB Interface, 698R Benchtop Mainframe, NFFF Application Software, and 600LW Lab Windows Software Driver.

LED SOURCES



Consult RIFOCS for all your special fiber launch requirements, both singlemode and multimode.

MODULE	657R	655R	656R	647R	645R	646R
Wavelength	850nm	1300nm	1550nm	850nm	1300nm	1550nm
Power (100/140µm GI) at 85%	-13dBm	-17dBm	-20dBm	-13dBm	-17dBm	-20dBm
Power Stability, 12 hours	±0.03dB					
Number of Channels	1	1	1	3	3	3
Modulation	5Hz to 1kHz programmable or CW					
Optical Connector Interface	UCI Module Width: 6E					

The 640/650R Stabilized LED Sources feature a Universal Overfill Launch Profile for up to 100/140 fiber. Special launch conditions can be provided, including **M80** series F-22/RAH-66 FOWG-approved launch profile for 100/140GI and avionics/shipboard 62.5/125applications

LASER SOURCES



MODULE	663R	664R	667R	668R	665R	666R
Wavelength	635nm	780nm	850nm	980nm	1310nm	1550nm
Power at 100%	-3dBm	-7dBm	-7dBm	-7dBm	-7dBm	-7dBm
Power Stability, 12 hours	±0.1dB	±0.07dB	TBD	±0.07dB	±0.07dB	±0.07dB
Number of Channels	1	1	1	1	1	1
Modulation	5Hz to 1kHz programmable or CW					
Optical Connector Interface	UCI Module Width: 6E					

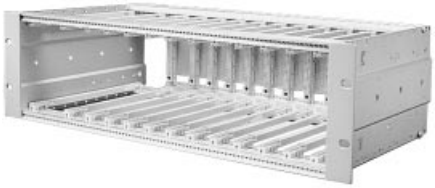
CONTROLLERS



MODULE	671R UNIVERSAL CONTROLLER
Interface	GPIB (Functions incl. dBm/Watt, dB, Zero, Range Hold, Channel, Wavelength, Address, etc.)
Control	Up to 128 channels
Power	100-240 VAC, 50/60 Hz, autoselection

A single 671R Controller Module provides an industry standard IEEE 488/GPIB interface for total system remote control. This modular system also conserves GPIB address space, as a single controller module can drive up to 128 channels (combination of OPM, Sources and Scanners).

MAINFRAMES



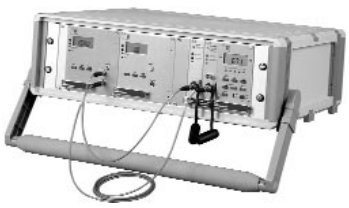
699R Rackmount, Full Width

MODEL	699R	697R	698R	696R
Type	Rackmount	Benchtop	Benchtop	Benchtop
Width	84E	42E	84E	2 X 84E
Capacity	1C+11M	1C+4M	1C+11M	2 x (1C+11M)
Configuration	Full Width	Half Width	Full Width	Dual Rack, Full Width

Modules not included with mainframes. C= Controller Module, M= Std. 6E Module



697R Benchtop, Half Width



698R Benchtop, Full Width



696R Benchtop, Dual Rack, Full Width

INSTRUMENT ADAPTERS

All RIFOCS instruments (except NF/FF Scanners are complimented by a broad line of precision SOC/UCI connector adapters. Each instrument includes the choice of one corresponding connector adapter. Contact RIFOCS for specific information and list of available adapters.

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