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**ADVANCED
RESEARCH INSTRUMENTS
CORPORATION**

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TRANSIMPEDANCE AMPLIFIERS

Designed for Fast Photo-Detector Applications

Model	Description
TDC-30	DC-20 MHz Transimpedance Amplifier The TDC-30 is FET based. A very low noise transimpedance amplifier featuring only 160 nAp-p full bandwidth input equivalent noise and 114dB gain. [0.5V/1 μ A]
TDC-50	DC-50 MHz Transimpedance Amplifier The TDC-50 is FET based. A very low noise transimpedance amplifier featuring only 400 nAp-p full bandwidth input equivalent noise and 100dB gain. [1V/10 μ A]
TDC-100	DC-100 MHz Transimpedance Amplifier The TDC-100 is FET based. A very low noise transimpedance amplifier featuring only 2 μ Ap-p full bandwidth input equivalent noise and 80dB gain. [1V/100 μ A]
DC-100	DC-100 MHz Transimpedance/Voltage Amplifier The DC-100 can be used in a voltage amplifier mode producing 20dB gain. As a transimpedance amplifier it has only 1 μ Ap-p full bandwidth input equivalent noise and 60dB gain. [1V/1mA]

Note: All amplifiers are housed in the same small package and are pin compatible to ARI's PMT series of transimpedance amplifiers. They are a drop in replacement to the PMT series when wider bandwidth is required. The output amplitude is $\pm 4V$ maximum when unterminated and $\pm 2V$ maximum when terminated with 50 Ω impedance (recommended).

*All ARI Amplifiers typically require a power supply and cabling.
Recommended Power Supply is the ARI Model F-100PS ($\pm 15V$).*

[The above specified gain is valid for a 50 Ω load.]



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