

The Model 21AC/NIR

A powerful 150W halogen fiber optic illuminator for near-infrared and infrared applications. The Model 21AC/NIR is a versatile light tool for scientific and industrial applications that require the precision delivery of energy in the NIR and IR regions via a fiber optic light guide. The sleek, stackable, low-profile aluminum case is perfect for space-constrained areas.



TECHNIQUIP MODEL 21 AC/NIR

TechniQuip's Model 21AC/NIR is an extremely rugged and reliable fiber optic illuminator. The Model 21AC/NIR comes factory-equipped with either an aluminum or gold-plated 150W halogen lamp according to your spectral requirements. The easy lamp change feature allows gold and aluminum MR-16 reflector lamps to be quickly exchanged. This low-cost lamp flexibility allows the Model 21AC/NIR to achieve a maximum spectral range of 700nm – 5 meters.

At just under 200 cubic inches in volume, the Model 21AC/NIR is one of the world's most compact and low profile 150W halogen illuminators. A perfect solution for space-constrained areas, the Model 21 AC/NIR is stackable. The quick lamp change feature allows the lamp to be replaced from the front of the unit for ease of access and maintenance when the Model 21 AC is secured in an equipment bay.

The Model 21AC/NIR features a rugged aluminum extrusion housing and steel end plates that are powder coated for maximum durability. The Model 21AC/NIR can be factory-equipped with an optional side handle for applications where the illuminator is frequently moved in a facility, classroom, or in field investigation. Alternately, the Model 21 AC/NIR has convenient T-slots along the length of both sides of its case to allow for secure, permanent mounting in an equipment bay



The Model 21AC/NIR expands the optical range of TechniQuip's line of "mission critical" fiber optic illuminators for both photonics, VIS, and fluorescence microscopy applications. Whether you need UV, VIS, near-IR, or short, medium, or far IR, TechniQuip offers an illuminator and a full line of fiber optic cables and accessories to meet your needs.

TECHNIQUIP 

PRECISION LIGHTING



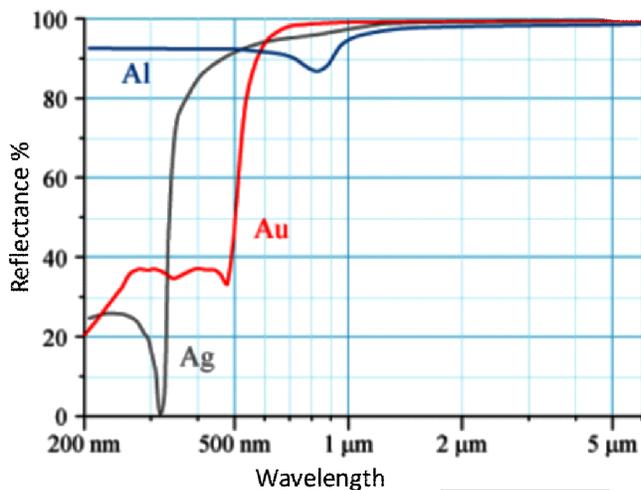


Figure 1

The Model 21 AC/NIR: Do You Need a Gold or an Aluminum Reflector?

Figure 1 shows the comparative IR reflectivity of Gold (Au), Aluminum (Al), and silver (Ag). While all coatings have high reflectivity >2 meters, there are critical performance differentials in the region of 700nm – 2 meters. A gold reflector is the clear choice for power in the near-IR region. However, certain applications require reduced energy in the VIS region <900nm. An aluminum-coated reflector is ideal for such applications. Silver (Ag) is shown only for comparative purposes.

To achieve maximum spectral range, the Model 21AC/NIR can be equipped with a gold reflector lamp and shipped with a spare aluminum reflector lamp. The quick lamp change feature on the Model 21AC/NIR allows lamps to be quickly interchanged as needed. Please refer to the last section of the Selection Guide to the left for lamp ordering codes.

NOTES:

1. Aluminum and gold coated reflector lamps are not dichroic reflectors. All of the lamp energy in an aluminum or gold-coated MR-16 halogen reflector lamp is directed into the light beam. While standard light guides can be used with high performance IR halogen lamps, TechniQuip offers Low OH Fused Silica light guides for improved transmission of near-IR and IR energy.
2. The Model 21AC/NIR does not come equipped with IR filters. The full IR energy of the 150W halogen lamp is delivered via the fiber optic nosepiece. The unit should be turned off as a safety precaution when changing out fiber optic cables or when the unit is not in use.

SELECTION GUIDE

Standard 115 VAC Models

- 21 ACNIR/1K100X/G – Gold Lamp
- 21 ACNIR/1K100X/GX – Gold Lamp with 5/8" nosepiece
- 21 ACNIR/1K100X/A – Aluminum Lamp
- 21 ACNIR/1K100X/AX – Aluminum Lamp with 5/8" nosepiece

Expanded Capability 115 VAC Models

- 21 ACNIR/1K100X/GI – Gold Lamp with Iris
- 21 ACNIR/1K100X/G/CF – Gold Lamp with Filter holder
- 21 ACNIR/1K100X/G/CF/I – Gold Lamp, Filter holder, Iris
- 21 ACNIR/1K100X/A – Aluminum Lamp with Iris
- 21 ACNIR/1K100X/A/CF – Aluminum Lamp with Filter holder
- 21 ACNIR/1K100X/A/CF/I – Aluminum Lamp, Filter holder, Iris

Standard Capability 220 VAC Models

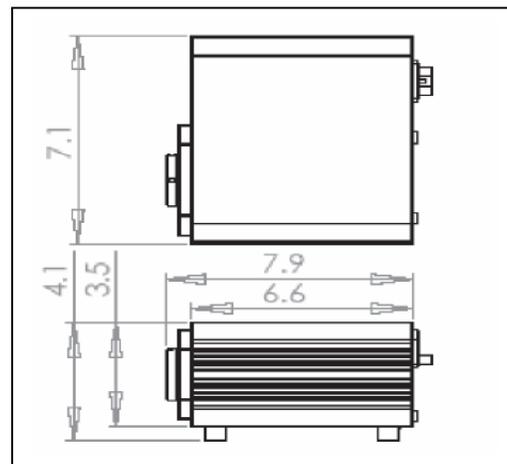
- 21 ACNIR/2K100X/G – Gold Lamp
- 21 ACNIR/2K200X/GX – Gold Lamp with 5/8" nosepiece
- 21 ACNIR/2K100X/A – Aluminum Lamp
- 21 ACNIR/2K200X/AX – Aluminum Lamp with 5/8" nosepiece

Expanded Capability 220 VAC Models

- 21 ACNIR/1K200X/GI – Gold Lamp with Iris
- 21 ACNIR/1K200X/G/CF – Gold Lamp with Filter holder
- 21 ACNIR/1K200X/G/CF/I – Gold Lamp, Filter holder, Iris
- 21 ACNIR/1K200X/A – Aluminum Lamp with Iris
- 21 ACNIR/1K200X/A/CF – Aluminum Lamp with Filter holder
- 21 ACNIR/1K200X/A/CF – Aluminum Lamp, Filter holder, Iris

Lamp Ordering Codes

- GL/MR16 – Gold-Coated MR-16 Reflector Lamp
- AL/MR16 – Aluminum-Coated MR-16 Reflector Lamp



MODEL 21AC/NIR PRODUCT FEATURES

Dual Intensity Control	All Model 21 AC feature 0-100% electronic dimming. An optional mechanical iris enables dimming without any shifting in color properties.
Rugged Housing	The Model 21AC's rugged aluminum housing and steel end plates are designed for maximum durability making the Model 21AC ideal for demanding environments.
Fiber Optic Attachment	A full set of nosepiece adapters is available in order to allow coupling to virtually any fiber optic cable from any manufacturer.
Options	The Model 21AC can be optionally fitted with a mechanical iris, IR/UV filters, electronic shutters, and color filters.
Flexibility in Mounting	The front relamping method enables the illuminator to be mounted in a number of different ways.
Power Input	Available in 110 VAC and 220 VAC versions.
Field Operation and Facility Transportability	The Model 21AC can be factory-equipped with an optional side handle for applications where the illuminator must be frequently moved.
High Brightness	The Model 21 accepts both the EKE and EJV lamp. The EKE is for standard illumination. The EJV lamp provides extreme high brightness light when needed.
Easy Lamp Replacement	Simply loosen the two screws on the front panel and pull out the lamp assembly.
Safety	The Model 21AC comes equipped with a thermal safety switch which removes power to the unit in the event of overheating.
Dimensions	7.1" wide by 7.9" deep by 4.1" tall.
CE	220 VAC versions only

DISTRIBUTED BY:

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