

KEY FEATURES

- ❖ Fully supports base Camera Link™ cameras/frame grabbers
- ❖ Direct plug – no electrical cable needed
- ❖ Broad bandwidth – up to 2.5 Gb/s supporting 24 bits image data at 85 MHz pixel clock
- ❖ Transparent operation – plug and play with no changes required for camera and/or frame grabber
- ❖ One LC duplex fiber interface
- ❖ Single 5V~16V DC power supply
- ❖ Exchangeable optical module – easy to upgrade
- ❖ Transmission distance - up to 10 km (standard), 80 km available
- ❖ **Compact size – 59L x 42W x 17H mm (2.326L x 1.638W x 0.669H inch)**

TARGET APPLICATIONS

- ❖ High precision security surveillance
- ❖ Bar code reading and sorting
- ❖ Vehicle license plate reading/recording
- ❖ Product inspection
- ❖ Port/Harbor cargo container management
- ❖ Railroad/surface road inspection
- ❖ Traffic surveillance/control
- ❖ Military and defense tests
- ❖ Medical imaging
- ❖ Aerospace test and measurement
- ❖ Cameras placed in harsh environment
- ❖ Long haul image transmissions
- ❖ Other Machine Vision Applications

PHRONTIER™
TECHNOLOGIES

PHIRE™ Camera Link Fiber Adapter

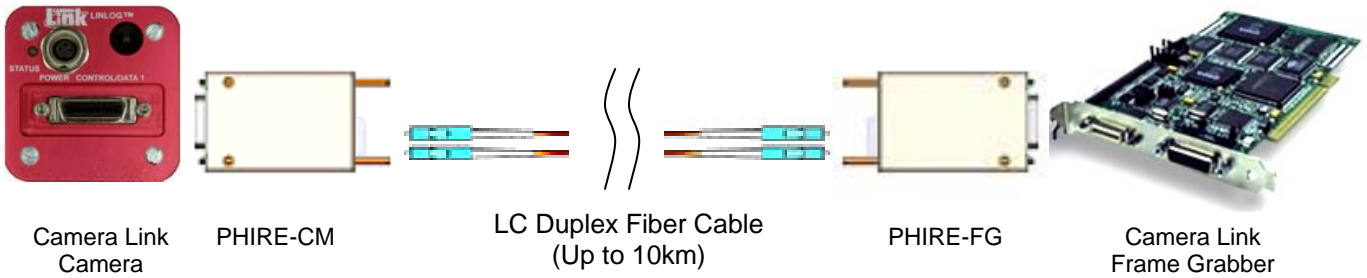
Base Configuration

PHR-60-M025/S10
PHR-68-M025/S10
PHR-85-M025/S10
PHR-85-M020/S07



Phrontier Technologies, LLC
www.phrontier-tech.com
sales@phrontier-tech.com
Toll Free: 1-866-389-2829
Fax: 1-801-998-1855

TYPICAL SET UP DIAGRAM



Camera Link
Camera

PHIRE-CM

LC Duplex Fiber Cable
(Up to 10km)

PHIRE-FG

Camera Link
Frame Grabber

TECHNICAL SPECIFICATIONS

General Specification

Operating Temperature	0 ~ 60 °C (case temperature)
Operating Humidity	20 ~ 80% (non-condensing)
Input Voltage	DC 5 ~ 16 V
Supply Current	200 mA @12V each module
Typical Power Consumption	2.4 W each module
Connector Type	Hirose MQ172X-4PA
Approx. Weight (each module)	75 gram

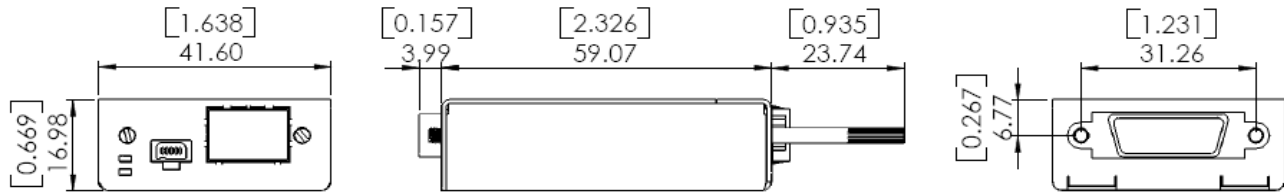
Camera Link Interface

	PHR-60-M025 PHR-60-S10	PHR-68-M025 PHR-68-S10	PHR-85-M025 PHR-85-S10	PHR-85-M020 PHR-85-S07
Max Pixel Clock	60 MHz	68 MHz	85 MHz	85 MHz
Max Image Data Width	12 bits	24 bits	16 bits	24 bits
Transport Bandwidth	1 Gb/s	2 Gb/s	2 Gb/s	2.5 Gb/s
Connector Type	MDR26 plug			

Optical Interface

	PHR-60-M025 PHR-68-M025 PHR-85-M025 PHR-85-M020	PHR-60-S10 PHR-68-S10 PHR-85-S10 PHR-85-S07
Operating Wavelength	850 nm	1310 nm
Min Optical Tx Output Power	-9.5 dBm	-9 dBm
Min Optical Rx Power	-17 dBm	-18 dBm
Connector Type	LC duplex	LC duplex
Fiber Type	50/125 μm or 62.5/125 μm MM fibers	9/125 μm SM fibers

MECHANICAL INFORMATION (mm [inch])



ORDERING INFORMATION

Model #	Data Width	Max. Pixel Clock Rate	Transport Distance*	Items Provided
PHR-60-M025	12 bits	60MHz	250 m (750 ft)	1x PHIRE-CM (transmitter) 1x PHIRE-FG (receiver) 2x 12V DC output international wall mount AC/DC power adapters with snap locking plug (LC duplex fiber cable not included)
PHR-68-M025	24 bits	68MHz	250 m (750 ft)	
PHR-85-M025	16 bits	85MHz	250 m (750 ft)	
PHR-85-M020	24 bits	85MHz	200 m (600 ft)	
PHR-60-S10	12 bits	60MHz	10 km (6.25 miles)	
PHR-68-S10	24 bits	68MHz	10 km (6.25 miles)	
PHR-85-S10	16 bits	85MHz	10 km (6.25 miles)	
PHR-85-S07	24 bits	85MHz	7 km (4.38 miles)	

* Distance depending on fiber type and system design. Transmission distance above is estimated minimum distance for 50/125 MM fiber and 9/125 SM fiber. Extra optical losses in the system will reduce the transmission distance.



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