

TERADEK Falco MD62

Falco MD62: 4K60 Medical Wireless Video Link Modules

Falco MD62 transmitters and receivers are wireless devices that can deliver 4K-60fps video in ultra-low latency (less than 1ms) for use in medical applications such as Endoscopy Systems, Surgical Lights, Clinical Microscopes and other setups requiring detailed capture of intricate procedures and sharp-clear images. The technology enables it to wirelessly transmit live video without interruption onto other monitors, control panels, recording equipment, and other related apparatuses, allowing the required robustness and flexibility in operating rooms and clinical setups. The solution allows dramatic decrease of pricey and lengthy installations and OR shut-down times.



	TRANSMITTER	RECEIVER
VIDEO		
Video Inputs	1x 12G-SDI SMPTE 2082-1 standard/75 Ω 1x HDMI 2.0 Type-A receptacle	N/A
Video Outputs	1x Loopout 12G-SDI SMPTE 2082-1 standard/75 Ω	2x 12G-SDI SMPTE 2082-1 standard/75 Ω 1x HDMI 2.0 Type-A receptacle
Color Sampling	SDI: YCbCr 4:2:2 10-Bit 10-bit/HDMI: RGB 4:4:4 8-bit	SDI: YCbCr 4:2:2 10-Bit 10-bit/HDMI: RGB 4:4:4 8-bit
Delay (TX to RX)	<0.001sec	<0.001sec
Supported Resolutions	2D: 4Kp23.98/24/25/29.97/30/50/59.94/60 1080p23.98/24/25/29.97/30/50/59.94/60 1080i50/59.94/60 720p50/59.94/60 3D (Side by Side / Top bottom / line interleaved): 4Kp23.98/24/25/29.97/30/50/59.94/60 1080p23.98/24/25/29.97/30/50/59.94/60	2D: 4Kp23.98/24/25/29.97/30/50/59.94/60 1080p23.98/24/25/29.97/30/50/59.94/60 1080i50/59.94/60 720p50/59.94/60 3D (Side by Side / Top bottom / line interleaved): 4Kp23.98/24/25/29.97/30/50/59.94/60 1080p23.98/24/25/29.97/30/50/59.94/60
AUDIO		
Audio Compression	48KHz 24-bit PCM	48KHz 24-bit PCM
Audio Input	Embedded SDI/HDMI Audio Input (2 channel)	N/A
Audio Output	N/A	Embedded SDI/HDMI Audio Input (2 channel)

TRANSMITTER

RECEIVER

PHYSICAL ATTRIBUTES

Dimensions	5.9"L x 3.6"W x 1.1"H (149 x 91.2 x 27.1mm)	5.1"L x 5.5"W x 1.1"H (129 x 138.8 x 27.1mm)
Weight	12.7oz (360g)	15.3oz (434g)
Device Composite	Milled aluminum (chassis) and regulation-compliant PCB	Milled aluminum (chassis) and regulation-compliant PCB

INTERFACES

Configuration Interface	OLED Screen with Menu Joystick Navigation	OLED Screen with Menu Joystick Navigation
Switches	On/Off Switch	On/Off Switch
Desktop App	Falco Manager app for Windows	Falco Manager app for Windows
USB Interface	Firmware update via Micro-USB	Firmware update via Micro-USB

NETWORK

Wireless	DFS Frequencies: 5.270 - 5.670 GHz Non-DFS Frequencies: 5.190 - 5.230 GHz and 5.755 - 5.795 GHz	DFS Frequencies: 5.270 - 5.670 GHz Non-DFS Frequencies: 5.190 - 5.230 GHz and 5.755 - 5.795 GHz
Encryption	AES-256, RSA-1024 key exchange	AES-256, RSA-1024 key exchange
RF power	Per region	Per region
Range	Up to 100 ft (30m)	Up to 100 ft (30m)
Multicast	Transmitter can stream simultaneously to up to 4 receivers	Receiver can switch between 4 transmitters
Noise Rejection	Can coexist with Wi-Fi and 5GHz cordless phones, and can operate up to 6 sets in same location	Can coexist with Wi-Fi and 5GHz cordless phones, and can operate up to 6 sets in same location

POWER

Power Input	2.1mm barrel connector 7-28 VDC	2.1mm barrel connector 7-28 VDC
Nominal Power Consumption	20 Watts	18 Watts
Operating Temperature	0 - 40°C	0 - 40°C

GENERAL

Mountability	Can be mounted on a VESA Plate and be placed in any position	Can be mounted on a VESA Plate and be placed in any position.
RF Compliance	FCC, EU, IC, KC, MIC	FCC, EU, IC, KC, MIC