

# USB & Video Extension Solutions

## Product Guide



Specialised Audio Visual Solutions

# Icron USB 3-2-1 Raven™ 3104 Pro Extender System.



## USB 3-2-1 Extender over Category Cable Optimized for Camera and Video Capture Devices

The Icron USB 3-2-1 Raven 3104 Pro provides the ability to connect all USB 3.2 Gen 1 (5Gbps) device types and is backwards compatible to USB 2.0 and 1.1 across a point-to-point connection up to 100m over CAT 6a/7. The Raven 3104 Pro also includes an Ethernet pass-through for connecting to network enabled devices or to use existing infrastructure without losing LAN connectivity.



### Summary of Features

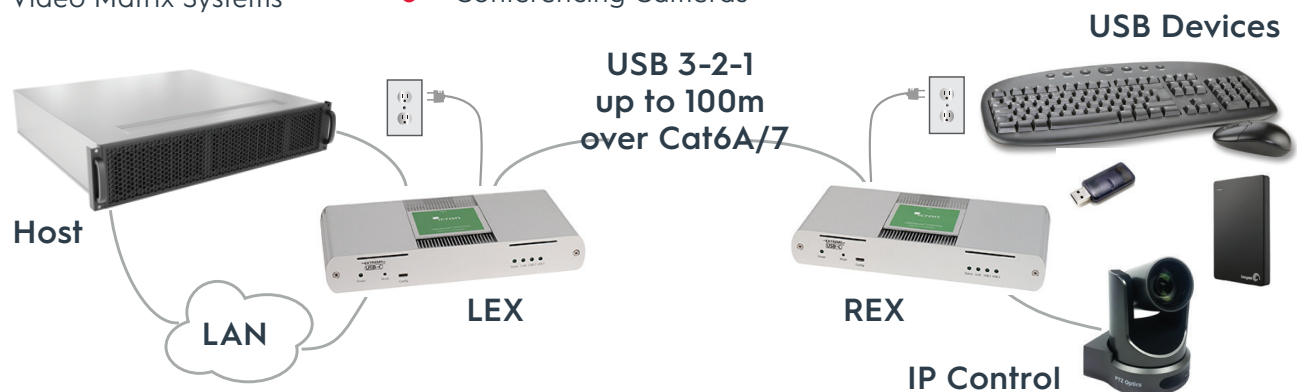
- USB 3.2 Gen 1 data rate up to 5Gbps
- Supports all USB 3.1, 2.0, 1.1 devices simultaneously at full bandwidth
- Four available 3.2 Gen 1 ports
- 100/1000 Ethernet channel; LAN pass-through
- Single cable, CAT 6a/7 up to 100m
- Point-to-point connection
- Supports all USB transfer types (Control, Interrupt, Isochronous and Bulk)
- Optimized for camera and video capture devices
- FCC and CE (Class B) compliant

### Includes the ExtremeUSB-C™ suite of features:

- Transparent USB extension supporting USB 3, 2 and 1
- True plug and play; no software drivers required
- Works with all major operating systems: Windows®, macOS™, Linux® and Chrome OS™

### Applications

- Remote Storage
- Video Matrix Systems
- Security and Monitoring
- Conferencing Cameras



# Icron USB 3-2-1 Raven™ 3104 Pro Specifications.



## Package Contents

- 1x LEX (Local Extender)
- 1x REX (Remote Extender)
- 1x USB 3.1 Gen 1 Cable
- 2x International Locking AC Adapters
- 2x Country Specific Power Cords
- 1x Quick Start Guide
- Packaged weight: 2.91kg (6.42 lbs.)



LEX (LOCAL EXTENDER) MECHANICAL DATA	REX (REMOTE EXTENDER) MECHANICAL DATA
137.3mm x 232.1mm x 33.0mm (5.4" x 9.1" x 1.3")	137.3mm x 232.1mm x 33.0mm (5.4" x 9.1" x 1.3")
1x USB 3 Type B Receptacle	4x USB 3 Type A Receptacles
1x RJ45 Ethernet 100/1000 Port	1x RJ45 Ethernet 100/1000 Port
1x RJ45 Ethernet Link Port	1x RJ45 Ethernet Link Port
24V 1A DC Locking Jack	24V 2.71A DC Locking Jack
920g (2.03 lbs.)	990g (2.18 lbs.)

RANGE	
Point-to-Point	Up to 100m over CAT 6A/7
USB SUPPORT	
USB Speeds	SuperSpeed 5 Gbps, High-Speed, Full-Speed, Low-Speed
USB Bandwidth	Up to 5Gbps
Device Compatibility	All Device Types and Classes (Control, Interrupt, Isochronous and Bulk)
Host Compatibility	OHCI, UHCI, EHCI, xHCI
Available Current at REX	1.2A (6W) per USB port
Max Number of USB Devices	30
ENVIRONMENTAL	
Temperature	0°C - 50°C (32°F - 122°F) Operating, -20°C - 70°C (-4°F - 158°F) Storage
Humidity	20-80% Operating, 10-90% Storage Relative Humidity Non-Condensing
SUPPORT	
Warranty	2 years



# Web Cam Conferencing System -Interoperability.



Web conferencing helps companies achieve success by allowing video sessions with anyone, anywhere, anytime. Unfortunately, integrators are often frustrated by installation challenges within the huddle/conference room where standard USB cables are not long enough and/or USB 3 extenders have been unreliable. Finally, with the availability of Icron's USB 3-2-1 Raven™ Series, there are web conferencing extension solutions that actually work.

Raven extends USB 3.1 web conferencing systems and other USB peripherals simultaneously up to 100 meters over CAT 6a/7 cable (3104) or up to 200 meters over OM3 fiber (3124). For enhanced experiences, including higher resolution and support for ISO transport devices and modes, the Raven 3104 Pro is recommended. Raven has been successfully tested with many major USB 3.1 conference cameras in conjunction with web conferencing applications such as BlueJeans, Cisco WebEx, Google Hangouts, Skype for Business, Microsoft Teams, and Zoom.

The following companies have tested and validated their USB 3 conference camera solutions to work seamlessly with Raven.

USB 3-2-1 Raven 3124



USB 3-2-1 Raven 3104



USB 3-2-1 Raven 3104 Pro



Aver	-	-	VB342 Ultra HD 4K Camera CAM520 PTZ Camera
Logitech	-	-	Brio Ultra HD Webcam MeetUp ConferenceCam Rally PTZ Camera
Lumens	-	-	VC-B30U, USB 3.0 PTZ Camera
Angekis	The Saber	The Saber	The Saber
ClearOne	UNITE 150, professional-grade USB PTZ Camera	UNITE 150, professional-grade USB PTZ Camera	UNITE 150, professional-grade USB PTZ Camera
HuddleCamHD	20X-G2 USB 3.1 PTZ Camera TelyCam	20X-G2 USB 3.1 PTZ Camera	20X-G2 USB 3.1 PTZ Camera
PTZOptics	USB 3.0 Advanced Conferencing Cameras PTZOptics 12 X-USB PTZOptics 20X-USB	USB 3.0 Advanced Conferencing Cameras PTZOptics 12X-USB PTZOptics 20X-USB	USB 3.0 Advanced Conferencing Cameras PTZOptics 12X-USB PTZOptics 20X-USB
Telycam	TLC-300-U3S, USB3.0 PTZ Video Conferencing Camera	TLC-300-U3S, USB3.0 PTZ Video Conferencing Camera	TLC-300-U3S, USB3.0 PTZ Video Conferencing Camera
Vaddio	Vaddio Roboshot 12	Vaddio Roboshot 12	Vaddio Roboshot 12
VDO360	Saber USB3 HD Video Camera	Saber USB3 HD Video Camera	Saber USB3 HD Video Camera



# Icron USB 3-2-1 Raven™ -Product Comparison.



The Icron USB 3-2-1 Raven extenders are the world's only USB 3 extension solution with ExtremeUSB-C™ technology extending all USB 3.2, 2.0 and 1.1 devices simultaneously up to 100 meters over CAT 6a/7 and 200 meters over Multimode Fiber.

USB 3-2-1  
Raven 3124



USB 3-2-1  
Raven 3104



USB 3-2-1  
Raven 3104 Pro



USB 3-2-1 EUSB 3-2-1 Extension up to 200m over Multimode Fiber	✓	—	—
USB 3-2-1 Extension up to 100m over Cat 6a/7 Cable	—	✓	✓
Four 5V 1.2A (6W) Downstream USB Ports	✓	✓	✓
ExtremeUSB-C™ Suite of Features	✓	✓	✓
FCC/CE Class B	✓	✓	✓
Maximum Number of Downstream Devices	30	30	30
100BaseT Ethernet Side Channel	✓	✓	✓
1000BaseT Ethernet Side Channel	✗	✓	✓
Enhanced Support for USB Camera, Video, and Video Capture Devices	✗	✗	✓
Support for Google Hangouts Meet	✗	✗	✓
Support for Isochronous USB 3 Transactions	✗	✗	✓



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