



AV BEYOND  
THE BOX ●●●

# Extension Solutions

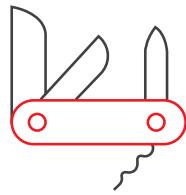
Choose Your Next Extender

[www.KramerAV.com](http://www.KramerAV.com)

**Whether you need to get your signal to the next device, room, city, or continent – We have the right extender for your installation. Our vast range of extenders caters for any signal, resolution, distance, room design and technology. Kramer provides extension tailored to your connectivity, functionality and deployment needs.**



**Secured**



**Versatile**



**Smart**

**So much more than simple  
P2P extension!**



**Standard**



**Compact**



**Affordable**

### Repeater

- Plug and play
- Easy installation
- Affordable
- Short range

### Any Wire

- Uses existing infrastructure
- Ultimate deployment solution
- Long range

### DGKat

- Affordable
- Compact
- Bidirectional powering (PoC)
- Medium range

### Fiber

- Secure
- Resilient to signal interference
- Reliable
- Ultra-long range

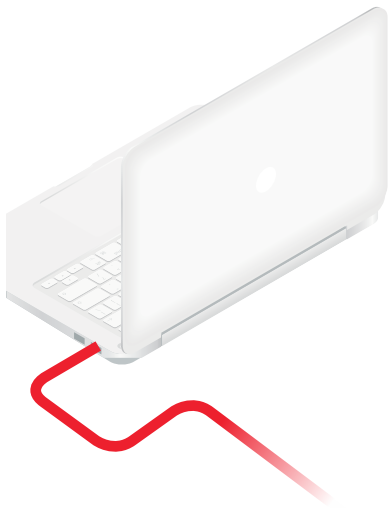
### HDBaseT

- Market standard
- Solution building block
- Extends diverse signal mix
- Long range

### WAN

- Scalable
- Diverse AV applications
- Uses existing IT infrastructure
- Unlimited range

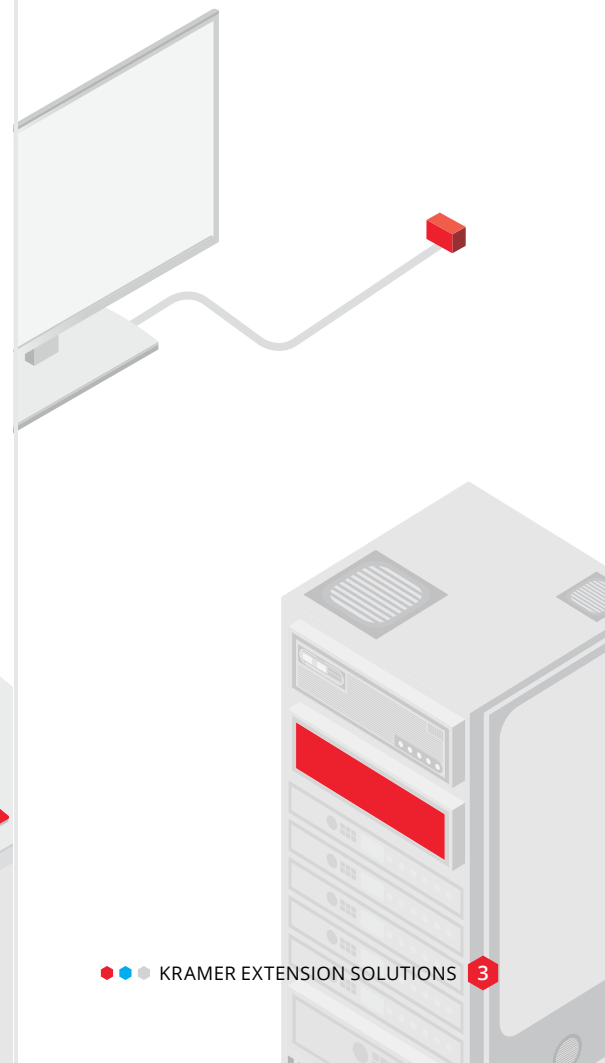
### Adapters & Cables



### Wall Plates



### Standalone Devices





Corporate



Government



Residential





Medical



Education



Houses of Worship

# Up to 70m Extension

Name	1080p/ Data Reach	4K30 4:4:4 Reach	4K60 4:4:4 Reach	Highlights	Technology	Extended Signals
C-HM/HM/PRO	1-20m	1-10m	1-6m	Cable-only solution	Copper Cable	HDMI™
CA-HM-15 / CA-HM-98	5-30m	5-30m	5-25m	Cable-only solution, self-powered	Active Copper Cable	HDMI
PT-3H2	45m	40m	20m	HDR	Repeater	HDMI
WP-3H2	45m	40m	20m	HDR, in-wall / podium	Repeater	HDMI
KRT-4-3H2	45m	40m	20m	HDR, table-mounted retractor	Repeater	HDMI
VA-4X	45m	40m	20m	Quad-repeater, HDR, OSD, AV tool with pattern generators & converters	Repeater	HDMI
CLS-AOCH/60-33 – CLS-AOCH/60-230 / CP-AOCH/60-33 – CP-AOCH/60-230	10-70m	10-70m	10-70m	Cable-only solution, conduit-ready	Active, Hybrid Fiber Cable	HDMI
CRS-AOCH/CLR/60-33 - CRS-AOCH/CLR/60-230	10-70m	10-70m	10-70m	Hi-resiliency cable-only solution, color-coded connectors	Active Hybrid Fiber Cable	HDMI
PT-871/2xr-KIT	70m	70m	60m	HDR, bidirectional PoC	DGKat	HDMI
WP-871xr / PT-872xr	70m	70m	60m	In-wall / podium, HDR, bidirectional PoC	DGKat	HDMI
PT-871xr / WP-872xr	70m	70m	60m	In-wall, low-profile, HDR, bidirectional PoC	DGKat	HDMI
TP-873xr / TP-874xr	70m	70m	50m	HDR, control, bidirectional PoC	DGKat	HDMI, RS-232, IR
TP-583T / TP-583R	70m	70m	70m	HDR, control	HDBaseT	HDMI, RS-232, IR
CLS-AOCDP-33 – CLS-AOCDP-230	10-70m	10-70m	10-70m	Cable-only solution, secured extension, self-powered	Active Fiber Cable	DP
KIT-400	70m	40m	40m	BYOD plug & play switching & scaling system, room automation, analog audio insertion / extraction, control, bidirectional PoC	HDBaseT	HDMI / VGA, RS-232

TP-580T / TP-580R	70m	40m	NA	Control	HDBaseT	HDMI, RS-232, IR
WP-580T / WP-580R	70m	40m	NA	In-wall / podium	HDBaseT	HDMI
VS-21DT / TP-580R	70m	40m	NA	Plug & play switcher, compact	HDBaseT	HDMI
TP-780T / TP-780R	70m	40m	NA	PoE, control	HDBaseT	HDMI, RS-232, IR
WP-789T / TP-789R	70m	40m	NA	In-wall / podium, control, bidirectional PoE	HDBaseT	HDMI, RS-232, IR
WP-211T / TP-789R	70m	40m	NA	In-wall / podium switcher, compact, bidirectional PoE	HDBaseT	HDMI
TP-780T / WP-789R	70m	40m	NA	In-wall, low-profile, control, PoE	HDBaseT	HDMI, RS-232, IR
TP-580T / TP-580RA	70m	40m	NA	Control, digital/analog audio de-embedding	HDBaseT	HDMI, RS-232, IR
TP-580TD / TP-580RD	70m	40m	NA	Control, reliable connectors	HDBaseT	DVI / HDMI, RS-232, IR
CLS-AOCH-33 – CLS-AOCH-230 / CP-AOCH-33 – CP-AOCH-230	10-70m	10-70m	NA	Cable-only solution	Active Hybrid Fiber Cable	HDMI
CLS-AOCH/XL-33 – CLS-AOCH/XL-230 / CP-AOCH/XL-33 – CP-AOCH/XL-230	10-70m	10-70m	NA	Cable-only solution, conduit-ready	Active Hybrid Fiber Cable	HDMI
CRS-AOCH/COLOR-33 - CRS-AOCH/COLOR-230	10-70m	10-70m	10-70m	Hi-resiliency cable-only solution, color-coded connectors	Active Hybrid Fiber Cable	HDMI
CRS-AOCH/XL-33 - CRS-AOCH/XL-230	10-70m	10-70m	10-70m	Hi-resiliency cable-only solution, conduit-ready	Active Hybrid Fiber Cable	HDMI

KW-14T / KW-14R	30m	NA	NA	Secured wireless, one-to-many, many-to-one	RF	HDMI
PT-571 / PT-572+	70m	NA	NA	PoC	DGKat	HDMI
WP-571 / WP-572	70m	NA	NA	PoC, in-wall / podium	DGKat	HDMI
PT-571HDCP / PT-572HDCP+	70m	NA	NA	PoC, reliable connectors	DGKat	DVI / HDMI
TP-573 / TP-574	70m	NA	NA	PoC, control	DGKat	HDMI, RS-232, IR
TP-580T / VP-427A	70m	NA	NA	Scaler, control, analog audio de-embedding	HDBaseT	HDMI, RS-232, IR, Audio
CA-UAM/UAF-15 – CA-UAM/UAF-65	5-20m	NA	NA	Cable-only solution, self-powered, cascable	Repeater	USB 2.0



# Up to 250m Extension

Name	1080p/ Data Reach	4K30 4:4:4 Reach	4K60 4:4:4 Reach	Highlights	Technology (Fiber Strands #, Connectors)	Extended Signals
TP-583Txr / TP-583Rxr	200m	180m	100m	HDR, control	HDBaseT	HDMI, RS-232, IR
TP-594Txr / TP-594Rxr	180m	100m	100m	HDR, intelligent digital/analog audio & ARC routing, built-in IP-driven control gateway, Ethernet, control, PoE	HDBaseT	HDMI, RS-232, IR, Ethernet, Audio, ARC
617R/T	200m	200m	200m	HDR, cable-only solution, conduit-ready, secured, utilizes existing infrastructure	Active Fiber MM (2, LC) Cable	HDMI
612R/T	200m	200m	200m	Cable-only solution, conduit-ready, secured, utilizes existing infrastructure	Active Fiber MM (2, LC) Cable	DP
CLS-AOCH/60-262 – CLS-AOCH/60-328 / CP-AOCH/60-262 – CP-AOCH/60-328	80-100m	80-100m	80-100m	Cable-only solution, conduit-ready	Active Hybrid Fiber Cable	HDMI
CRS-AOCH/CLR/60-262 – CRS-AOCH/CLR/60-328	80-100m	80-100m	80-100m	Hi-resiliency cable-only solution, color-coded connectors	Active Hybrid Fiber Cable	HDMI
CLS-AOCDP-262 – CLS-AOCDP-328	80-100m	80-100m	80-100m	Cable-only solution, secured extension, self-powered	Active Hybrid Fiber Cable	DP
VP-428H2 / TP-789Rxr	180m	100m	100m	Scaler, BYOD plug & play switcher, analog audio embedding, control, Ethernet, PoE	HDBaseT	HDMI / DP / VGA, RS-232, IR, Ethernet
WP-20 / VP-427H2	180m	100m	100m	Scaler, BYOD in-wall / podium switcher, digital/analog audio de-embedding, analog audio embedding, control, Ethernet	HDBaseT	HDMI / VGA, RS-232, Ethernet, Audio
TP-780Txr / VP-427H2	180m	100m	100m	Scaler, digital/analog audio de-embedding, control, Ethernet	HDBaseT	HDMI, RS-232, IR, Ethernet

TP-580Txr / TP-580Rxr	180m	100m	NA	Control	HDBaseT	HDMI, RS-232, IR
TP-780Txr / TP-780Rxr	180m	100m	NA	PoE, control, Ethernet	HDBaseT	HDMI, RS-232, IR, Ethernet
WP-580Txr / TP-580Rxr	180m	100m	NA	In-wall / podium	HDBaseT	HDMI
DIP-20 / TP-789Rxr	180m	100m	NA	BYOD plug & play switcher, room automation, analog audio embedding / de-embedding, control, Ethernet, PoE	HDBaseT	HDMI / VGA, RS-232, Ethernet
WP-20 / TP-789Rxr	180m	100m	NA	BYOD In-wall / podium switcher, room automation, analog audio embedding / de-embedding, control, Ethernet, PoE	HDBaseT	HDMI / VGA, RS-232, Ethernet
TP-780Txr / TP-588D	180m	100m	NA	Reliable connectors, PoE, digital/analog audio embedding/de-embedding, control, Ethernet	HDBaseT	HDMI / DVI, RS-232, IR, Ethernet
TP-780Txr / VP-427UHD	180m	100m	NA	Seamless scaler, auto-switched receiver, PoE, Ethernet, control, digital/analog audio de-embedding	HDBaseT	HDMI, RS-232, Ethernet
TP-590Txr / TP-590Rxr	180m	100m	NA	PoE, KVM, digital/analog audio embedding/de-embedding, control, Ethernet	HDBaseT	HDMI, RS-232, IR, Ethernet, Audio, USB
CLS-AOCH-262 – CLS-AOCH-328 / CP-AOCH-262 – CP-AOCH-328	80-100m	80-100m	NA	Cable-only solution	Active Hybrid Fiber Cable	HDMI
CLS-AOCH/XL-262 – CLS-AOCH/XL-328 / CP-AOCH/XL-262 – CP-AOCH/XL-328	80-100m	80-100m	NA	Cable-only solution, conduit-ready	Active Hybrid Fiber Cable	HDMI
CRS-AOCH/COLOR-262 – CRS-AOCH/COLOR-328	80-100m	80-100m	80-100m	Hi-resiliency cable-only solution, color-coded connectors	Active Hybrid Fiber Cable	HDMI
CRS-AOCH/XL-262 – CRS-AOCH/XL-328	80-100m	80-100m	80-100m	Hi-resiliency cable-only solution, conduit-ready	Active Hybrid Fiber Cable	HDMI

TP-582T / TP-582R	130m	NA	NA	Selectable input, digital/analog audio de-embedding, control, Ethernet	HDBaseT	HDMI, RS-232, IR, Ethernet, Audio
SID-X2N / TP-580Rxr	180m	NA	NA	BYOD plug & play switcher, analog audio embedding / de-embedding	HDBaseT	HDMI / DP / DVI / VGA
PT-2UT / PT-2UR	100m	NA	NA	Dual-role USB, fast charging, bidirectional PoC	HDBaseT	USB 2.0, RS-232, Audio
PT-5R/T	250m	NA	NA	Remote/local multi-device control	Repeater	IR

# Up to 33km / WAN Extension

Name	1080p/ Data Reach	4K30 4:4:4 Reach	4K60 4:4:4 Reach	Highlights	Technology (Fiber Strands #, Connectors)	Extended Signals	
4K60 4:4:4	675T/R-MM1	3km	3km	3km	Secured, utilizes existing infrastructure	Fiber MM (2, LC)	HDMI
	675T/R-SM10	33km	33km	33km	Secured, utilizes existing infrastructure	Fiber SM (2, LC)	HDMI
	KDS-8	LAN	LAN	LAN	HDR, versatile, utilizes existing infrastructure	10GE Copper SDVoE AVoIP	HDMI
	KDS-8F	LAN	LAN	LAN	Secured, HDR, versatile, utilizes existing infrastructure	10GE Fiber SDVoE AVoIP MM (2, LC)	HDMI

4K30 4:4:4	KDS-EN5 / KDS-DEC5	WAN / LAN	WAN / LAN	NA	One-to-many, many-to-many, video wall, PoE, control, analog audio de-embedding	1GE Copper H.264 AVoIP	HDMI, RS-232
	KDS-EN6 / KDS-DEC6	LAN	LAN	NA	One-to-many, many-to-many, video wall, PoE, KVM, control, analog audio embedding/de-embedding	1GE Copper MPEG AVoIP	HDMI, RS-232, IR, Audio, USB
	691/2-MM1	3km	3km	NA	Secured KVM extension, control, Ethernet, digital/ analog audio embedding/de-embedding, utilizes existing infrastructure	HDBaseT Fiber MM (2, LC)	HDMI, RS-232, IR, Ethernet, Audio, USB
	691/2-SM10	33km	33km	NA	Secured KVM extension, control, Ethernet, digital/ analog audio embedding/de-embedding, utilizes existing infrastructure	HDBaseT Fiber SM (2, LC)	HDMI, RS-232, IR, Ethernet, Audio, USB

1080p / Data	TP-752T / TP-752R	0.6km	NA	NA	Any 2-wire cable, utilizes existing infrastructure, cascadable, analog audio de-embedding	2-wire	HDMI, RS-232
	602R/T	1.5km	NA	NA	Reliable connectors, utilizes existing infrastructure	Fiber MM / SM (2, LC)	DVI / HDMI
	610R/T	0.4km	NA	NA	Reliable connectors, utilizes existing infrastructure	Fiber MM (4, LC)	DVI / HDMI
	614R/T	0.5km	NA	NA	Reliable connectors, utilizes existing infrastructure	Fiber MM (1, SC)	DVI / HDMI
	616R/T	0.5km	NA	NA	Reliable connectors, utilizes existing infrastructure	Fiber MM (1, LC)	Dual-link DVI / HDMI
	613R/T	30km	NA	NA	Reliable connectors, utilizes existing infrastructure	Fiber SM (1, ST)	3G SDI
	690R/T	10km	NA	NA	Reliable connectors, utilizes existing infrastructure	Fiber SM (2, LC)	2 x 3G SDI
	673R/T	1km	NA	NA	Reliable connectors, utilizes existing infrastructure	Fiber MM (1, LC)	4 x 3G SDI
	KDS-EN4 / KDS-DEC4	WAN / LAN	NA	NA	KVM, control, one-to-many, many-to-many, utilizes existing infrastructure, analog audio embedding/ de-embedding	1GE Copper H.264 AVoIP	HDMI, RS-232, IR, Audio, USB



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