



# UHD-FOM40-K

## 4K@60Hz HDMI Over IP Extender Over Fiber Optic

**DIMENSIONS & WEIGHT:**

**Transmitter:**  
**Length:** 106mm/4.17in **Width:** 103mm/4.06in  
**Height:** 25mm/0.98in **Weight:** 290g/10.23oz

**Receiver:**  
**Length:** 106mm/4.17in **Width:** 103mm/4.06in  
**Height:** 25mm/0.98in **Weight:** 290g/10.23oz

The **UHD-FOM40-K** offers a comprehensive solution for extending high-definition signals over long distances. It supports up to 4K@60Hz video resolution up to 40Km over a single mode fiber optic cable. It utilizes ipcolor STREAM technology to ensure high-definition transmission with minimal latency. The Transmitter features an HDMI loop output to connect a display near the source. It supports both one-to-one and one-to-many connections through a gigabit switch. Additionally, it features IR functionality and RS-232 passthrough. It is designed for stable and uninterrupted operation 24 hours a day.

**PACKAGE CONTENTS:** 1x Transmitter, 1x Receiver, 1x IR Blaster cable, 1x IR Receiver cable, 2x RS-232 3-pin phoenix connector, 1 x SFP optical module (T1310nm/R1550nm), 1 x SFP optical module (T1550nm/R1310nm), 4x Mounting bracket, 2x Grounding Screw, 10x Screw, 2x Power Adapter, User Manual

**KEY FEATURES:**

- HDMI 2.0 and HDCP 2.2 compliant.
- Resolutions up to 4K@60Hz
- 18Gbps video bandwidth
- Features ipcolor STREAM technology through which high-definition, and low-latency transmission is achieved.
- Extend signals to up to 40Km over a Single Mode Fiber Optic cable
- One-to-one or one-to-many connection through a gigabit switch.
- RS-232 pass-through.
- One-way IR control
- Micro USB port for firmware upgrades.
- Designed for 24-hour steady operation.

## SPECIFICATIONS

**CONNECTIVITY:**

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Transmitter:</b> |                                      |
| <b>INPUT:</b>       | 1 × HDMI [Type A, 19-pin female]     |
|                     | 1 × L/R [3.5mm Stereo Mini-jack]     |
| <b>OUTPUT:</b>      | 1 × HDMI [Type A, 19-pin female]     |
|                     | 1x SFP to LC [Fiber Optic Module]    |
| <b>CONTROL:</b>     | 1 × IR OUT [3.5mm Stereo Mini-jack]  |
|                     | 1 × RS-232 [3-pin phoenix connector] |
|                     | 1 × SERVICE [Micro USB, Update port] |
| <b>Receiver:</b>    |                                      |
| <b>INPUT:</b>       | 1x SFP to LC [Fiber Optic Module]    |
| <b>OUTPUT:</b>      | 1 × HDMI [Type A, 19-pin female]     |
|                     | 1 × L/R [3.5mm Stereo Mini-jack]     |
| <b>CONTROL:</b>     | 1 × IR IN [3.5mm Stereo Mini-jack]   |
|                     | 1 × RS-232 [3-pin phoenix connector] |
|                     | 1 × SERVICE [Micro USB, Update port] |

**COMPLIANCES:**

|                 |            |
|-----------------|------------|
| HDMI Compliance | : HDMI 2.0 |
| HDCP Compliance | : HDCP 2.2 |

**SUPPORTED FIBER OPTIC CABLES :**

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| Single mode/  |                                                                 |
| Multiple mode |                                                                 |
| Optical fiber | : We recommend you use Single Mode Fiber                        |
|               | Optic cables & High-Quality HDMI Cables for optimum performance |

**EXTENDING DISTANCE:**

|         |                 |
|---------|-----------------|
| 4K@60Hz | : 40 Kilometres |
|---------|-----------------|

**VIDEO OUTPUT:**

|                   |                       |
|-------------------|-----------------------|
| Video Bandwidth   | : 18Gbps              |
| Video Resolutions | : Up to 4K@60Hz 4:4:4 |

**ADDITIONAL FEATURES**

|                    |       |
|--------------------|-------|
| CEC Function       | : No  |
| ARC Function       | : No  |
| USB KVM Function   | : No  |
| PoC/PoE Function   | : No  |
| IR Control         | : Yes |
| Downmix Function   | : No  |
| Downscale Function | : No  |
| Over IP Function   | : Yes |
| HDBaseT Function   | : No  |
| RS-232 Function    | : Yes |

**LOOP-OUT/LOCAL PORT:**

|                          |       |
|--------------------------|-------|
| Has loop out port        | : Yes |
| Number of Loop out ports | : 1   |

**AUDIO SUPPORT:**

|              |            |
|--------------|------------|
| HDMI         | : LPCM 2.0 |
| 3.5mm Analog | : PCM 2.0  |

**POWER:**

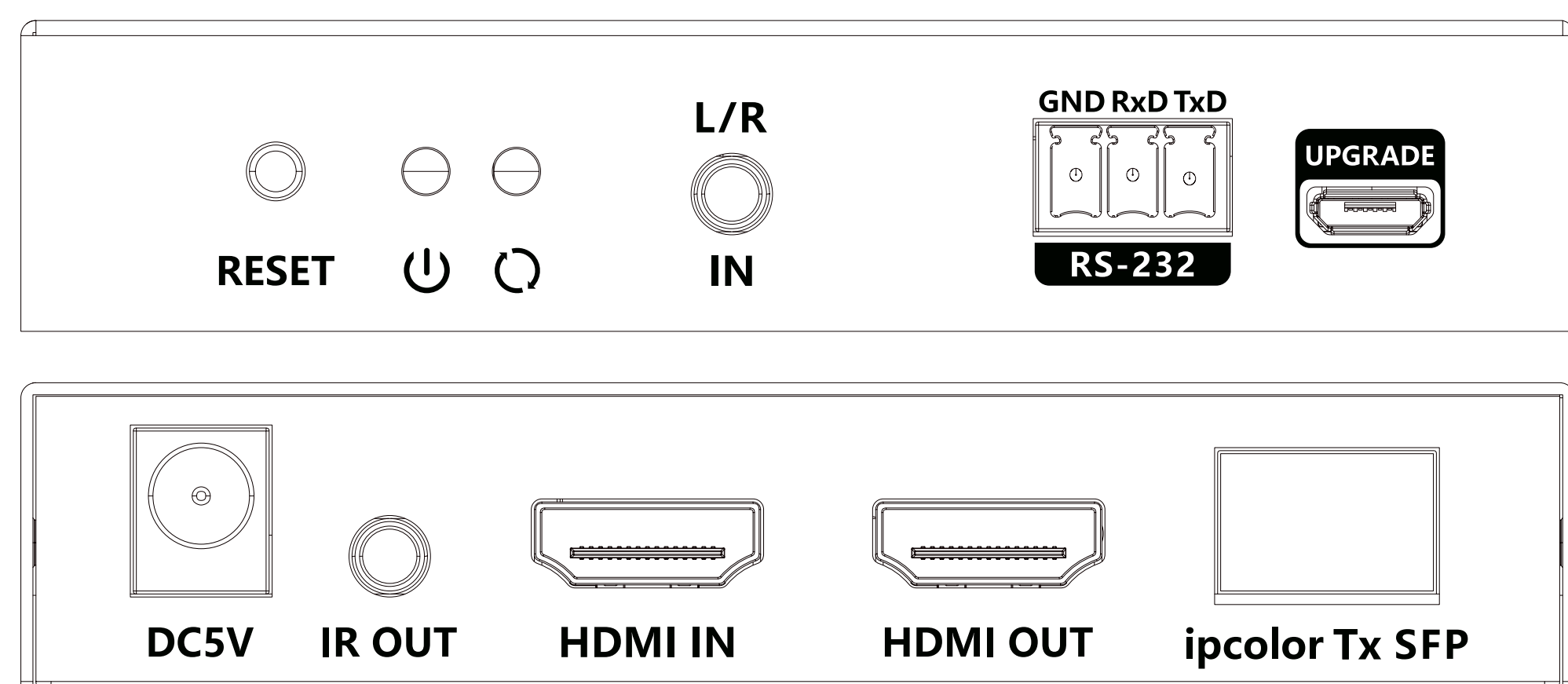
|                   |                             |
|-------------------|-----------------------------|
| Power Consumption | : ≤7.5W (Max)               |
| Power Supply:     | Input : AC 100-240V 50/60Hz |
|                   | Output : DC 5V/2A           |



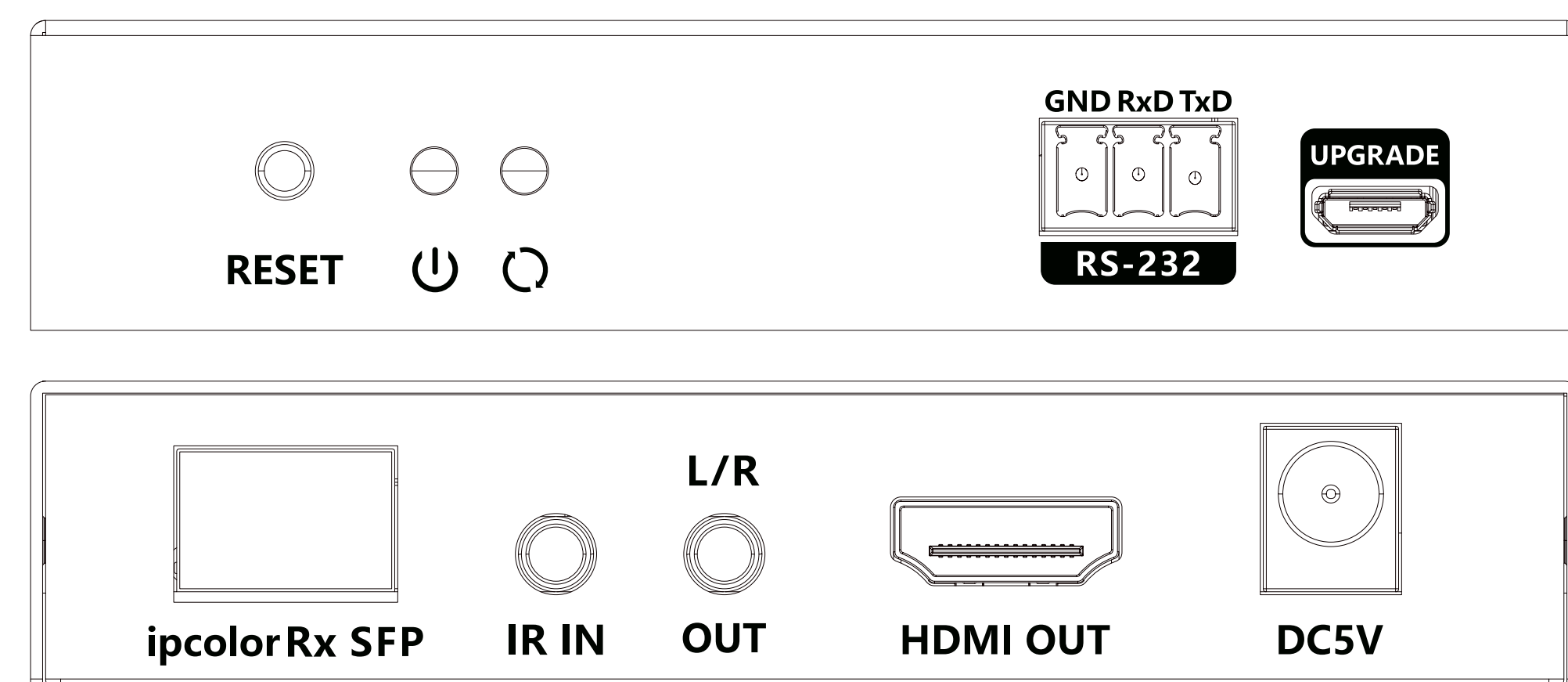




# CONNECTION DIAGRAM

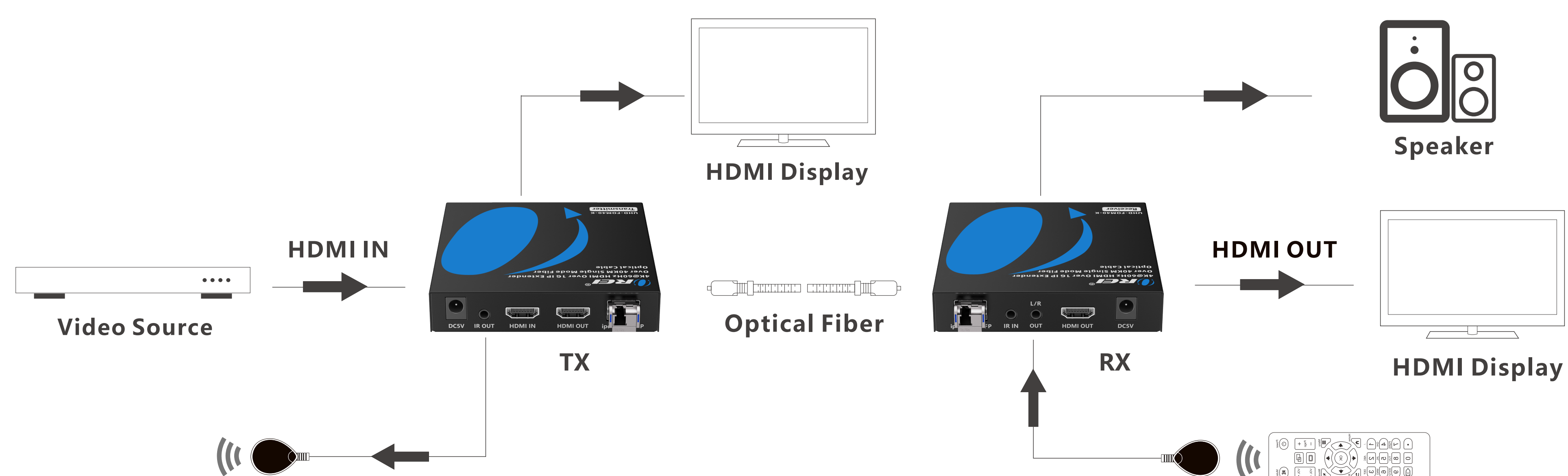


**Transmitter**

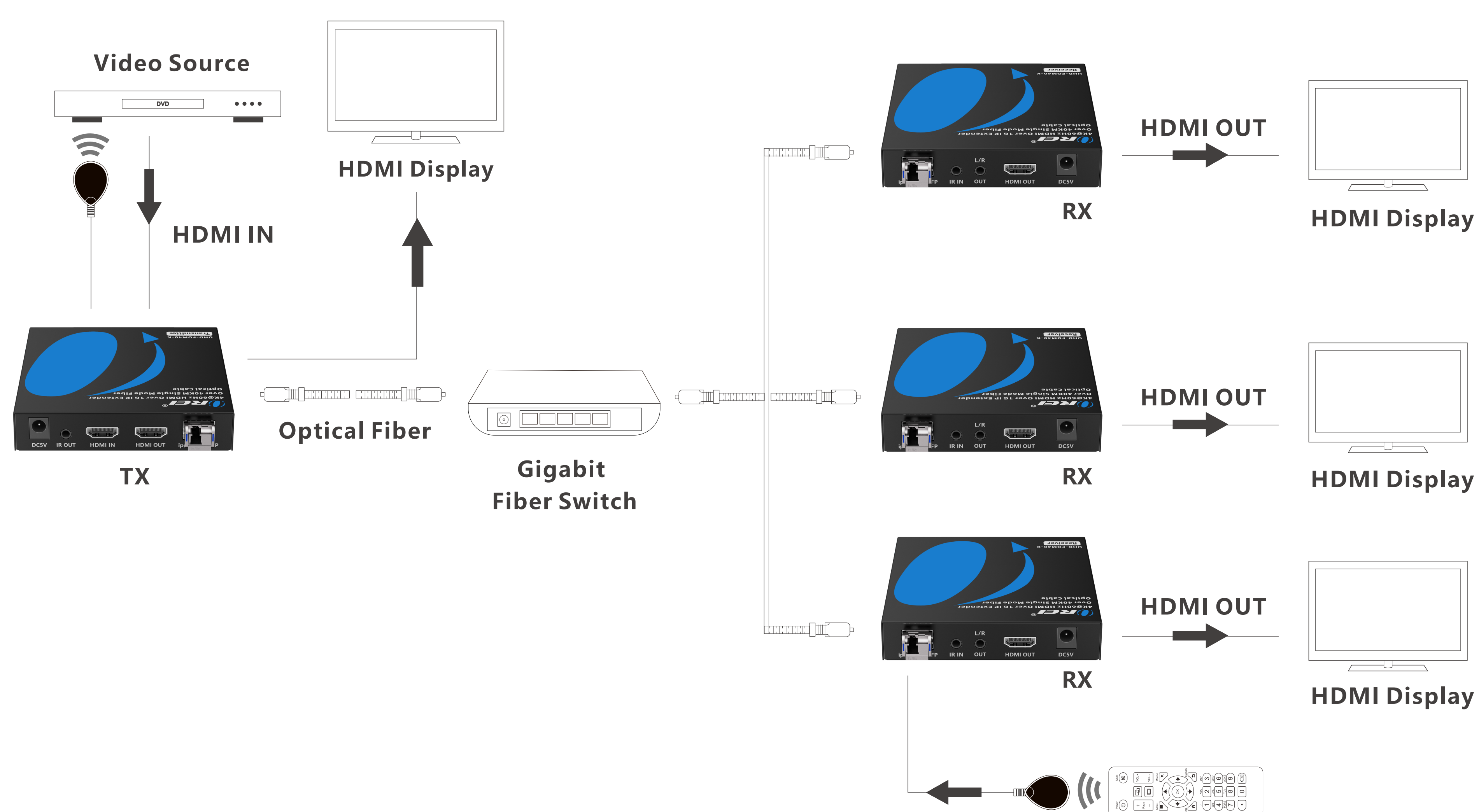


**Receiver**

## 1.1 One-to-one connection



## 2.2 One-to-many connection



OVER 10 YEARS  
EXPERIENCE

