

Seamless Switching Guide

Example- iMatrix M808

The iMatrix support up-scaler, not down-scaler.

1. Basic logic of seamless switching

- 1.1. It is irrelevant to the input resolution of the input card.
- 1.2. It is irrelevant to the output resolution of the output card.
- 1.3. It is irrelevant to the size of the matrix switch.
- 1.4. 4K output card: compatible with 2K and 4K signals.
- 1.5. 2K output card: must be 1080p. 4K signal has no image.
- 1.6. Additional notes:

For the 4K input card, when the signal source is changed to 1080P, there will be displayed through the 2K output card. (And the signal source resolution must be set to 1080P60 RGB format, otherwise the image will have a color cast or without image)

2. Configuration 1:

All configurations 2K input and output cards: no settings required, standard seamless switching.

2K HDMI input card, 1080p signal	Matrix switching Standard configuration Seamless switching	Output: 1080p, 2K HDMI output card
2K DVI input card, 1080p signal		Output: 1080p, 2K DVI output card
2K VGA input card, 1080p signal		Output: 1080p, 2K VGA output card
2K SDI input card, 1080p signal		Output: 1080p, 2K SDI output card

3. Configuration 2:

All configurations 4K input and output cards: no settings required, standard seamless switching.

4K HDMI input card, 4K signal	Matrix switching Standard configuration Seamless switching	Output: 4K, 4K HDMI output card
4K HDBaseT input card, 4K signal		Output: 4K, 4K HDBaseT output card
4K optical input card, 4K signal		Output: 4K, 4K optical output card

4. Configuration 3:

Input cards: mixed 2K and 4K

Output card: all 4K cards, no settings required, standard seamless switching

- 4.1. Seamless switching between 4K input/output cards
- 4.2. Seamless switching between 2K input/output cards
- 4.3. Seamless switching between 2K input card and 4K output card

4K HDMI input card, 4K signal	Matrix switching Standard configuration Seamless switching	Output: 4K, 4K HDMI output card
4K HDBaseT input card, 4K signal		Output: 4K, 4K HDBaseT output card
2K VGA input card, 1080p signal		Output: 4K, 4K optical output card
2K SDI input card, 1080p signal		null

5. Configuration 4:

Input card: mixed with 2K and 4K.

Output card: mixed with 2K and 4K.

5.1. Seamless switching between 4K input card and 4K output card

5.2. Seamless switching between 2K input card and 2K output card

5.3. Seamless switching between 2K/4K input cards, and 4K output card

5.4. 4K input card to 2K output card: When the signal source has a resolution as 1080P or below, the image will be normally, otherwise there will be no image (and the signal source resolution must be set to 1080P60 RGB format, otherwise the image will have a color cast or without image.)

4K HDMI input card, 4K signal	Matrix switching Seamless switching Not recommended	Output: 4K, 4K HDMI output card
4K HDBaseT input card, 4K signal		Output: 4K, 4K HDBaseT output card
2K VGA input card, 1080p signal		Output: 1080p, 2K HDMI output card
2K SDI input card, 1080p signal		Output: 1080p, 2K DVI output card