

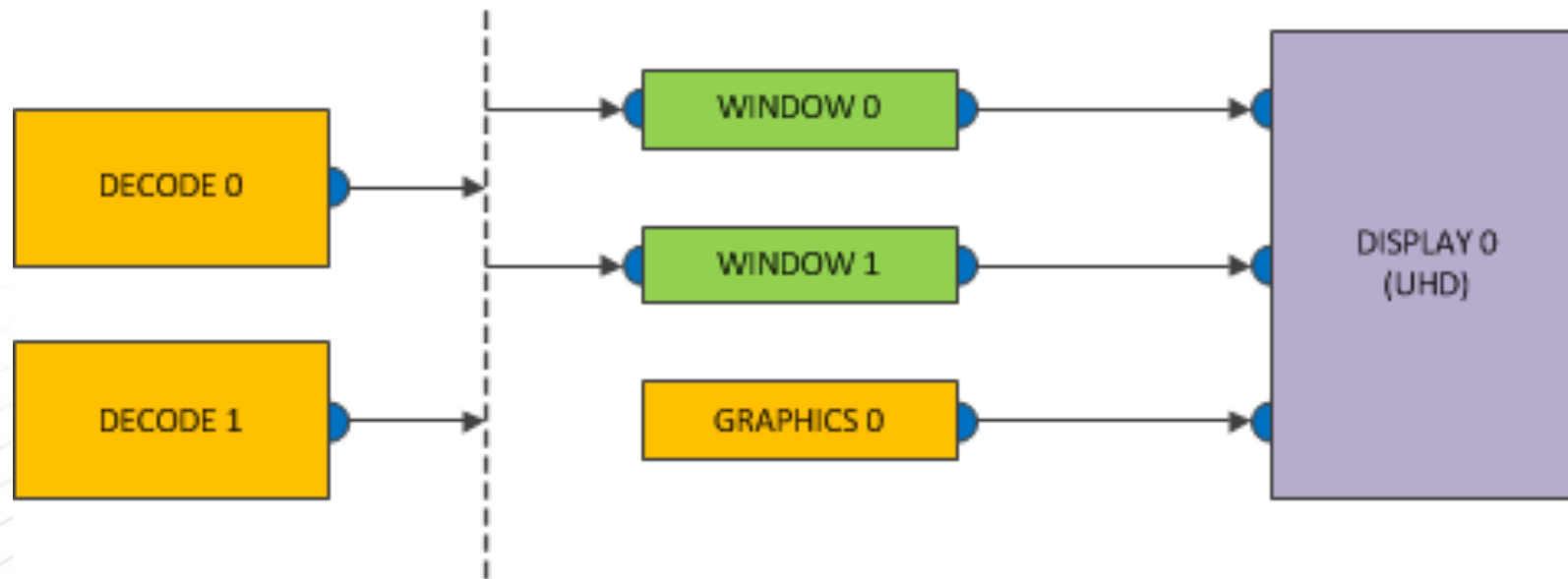
BOX MODE #26

7439 Bx



- **Required memory speed: 1x 32-bit DDR4-2400 (1% SSC)**
 - No high-temperature refresh
- **Features:**
 - 3840x2160p60 decode
 - 352x288p50 decode
 - UHD display only (no independent SD)
 - MAIN + PIP
 - No HDMI input
 - No encoding

POSSIBLE VIDEO ROUTINGS

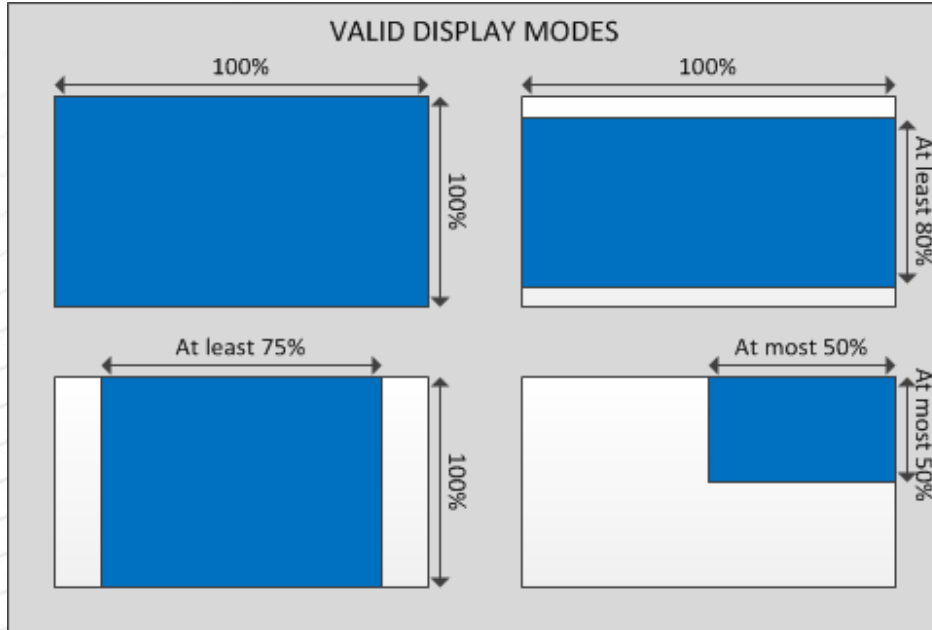


- **For each source, you may toggle between any of the provided options.**
 - Only one option enabled at a given time.
- **Decode 0**
 - 3840x2160p60 10-bit HEVC
 - 3840x2160p60 8-bit VP9
 - 1920x1080p60 8-bit AVC / MPEG2
 - Sources larger than 1080p must have an aspect ratio less than or equal to 2.21:1
- **Decode 1**
 - 352x288p50 10-bit HEVC
 - 352x288p50 8-bit VP9 / AVC / MPEG2
- **Graphics 0 (UHD)**
 - 1080p50 32-bit ARGB

Decoder	MFD	Hardware
Decode 0	MFD0	HVD0
Decode 1	MFD1	HVD1

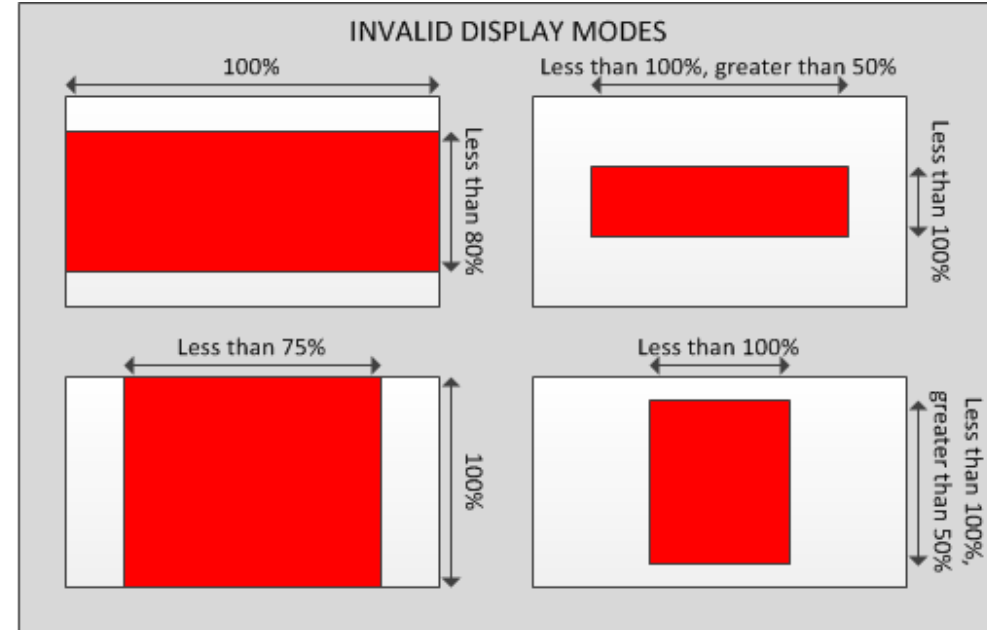
■ Window 0 (MAIN / UHD)

- 1080i50 de-interlacing
- When the display format size is less than or equal to 1080p then supports up to full-screen (smooth-scaling)
- When the display format is greater than 1080p, the following diagram specifies the limits:



■ Window 1 (PIP / UHD)

- Up to $\frac{1}{2} \times \frac{1}{2}$ display (smooth scaling)
- 576i50 8-bit de-interlacing



■ Display 0 (UHD)

- Up to 3840x2160p size and up to 50Hz rate
 - For example, 1080p60 is an appropriate size but exceeds the rate restriction.
- Can be routed to HDMI or CVBS but only one size/format is supported at any time.
 - If HDMI cable connection is detected, can drive HDMI (up to UHD) and CVBS will be off.
 - If HDMI cable not detected, can drive CVBS (576i50) and HDMI will be off.
- Displays larger than 1080p must have an aspect ratio greater than or equal to 16:9