### Interface Notes:

<table>
<thead>
<tr>
<th>Interface Technology</th>
<th>Description</th>
<th>780</th>
<th>780C</th>
<th>780E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tx HDMI 300MHz</td>
<td>HDMI Tx enables testing of HDMI sink devices up to 300MHz</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Rx HDMI 300MHz</td>
<td>HDMI Rx enables testing of HDMI source devices up to 300MHz</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Tx HDMI 600MHz</td>
<td>HDMI Tx enables testing of HDMI sink devices up to 600MHz</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Rx HDMI 600MHz</td>
<td>HDMI Rx enables testing of HDMI source devices up to 600MHz</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Tx HDBaseT 300MHz</td>
<td>HDBaseT Tx enables testing of HDBaseT sink devices up to 300MHz</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Rx HDBaseT 300MHz</td>
<td>HDBaseT Rx enables testing of HDBaseT source devices up to 300MHz</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Tx DisplayPort - 5.4Gbps</td>
<td>DisplayPort Tx enables testing link rates up to 5.4Gbps at 1, 2 or 4 lanes</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Rx DisplayPort - 5.4Gbps</td>
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<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Tx 3G-SDI ~ 2.97Gbps</td>
<td>3G-SDI Tx enables testing of 3G-SDI sink devices up to 3G data rates</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Rx 3G-SDI ~ 2.97Gbps</td>
<td>3G-SDI Rx enables testing of 3G-SDI source devices up to 3G data rates</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Analog TV Component</td>
<td>Test analog component video for TV sink devices up to 80MHz</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Analog RGB for computers</td>
<td>Test analog RGB video for PCs</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Functional Tests (Sinks) Notes:

1. Only supports up to 225MHz TMDS rates with deep color.
2. Supports resolutions higher than 80MHz through pixel doubling.

1. Part of Network Analyzer optional feature package.
2. Part of Aux Channel Emulator monitor optional feature package.
3. Limited to: active interface (e.g. HDMI, VGA), format resolution and test pattern.
4. Also supports Aux channel monitoring on HDBaseT ports.
5. Shows full status of HDMI outgoing stream: active interface (e.g. HDMI, VGA and HDBaseT for 780C and 780D and SDI for 780C), format resolution, test pattern, 3D status, audio format, HDCP status, AVMute status).
6. 780D supports deep color only supported up to 1080p60 formats. 780E supports deep color at: 10 bpc up to 480MHz; 12 bpc up to 400MHz; 16 bpc up to 300MHz.

### Notes:

- **HDCP 1.4 Verification**: Show HDCP 1.4 test on sink. Show each of the key steps in authentication.
- **HDCP 2.2 Verification**: Show HDCP 2.2 test on sink.
- **EDID Verification**: Read sink EDID in human text, run partial EDID compliance test.
- **Deep Color Testing**: Run pattern tests using deep color patterns and timing formats.
- **HDMI 2.0 4:2:0 Testing**: Generator patterns with 4:2:0 pixel encoding with 4K formats at 60Hz.
- **HDMI 2.0 21:9 Formats**: Generator 861-F 2:19 video timing formats.
- **Audio Testing**: Run audio tests with uncompressed and compressed formats.
- **3D Rendering**: Run 3D pattern tests with using standard 3D patterns and mandatory formats.
- **Annotated test patterns/clips**: Support scrolling test patterns or clips for testing motion artifacts.
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### Operational Notes:

1. Larger 7 inch color touch screen (800 x 480).
2. Does not support command line through RS-232.