

# Pro Tools | Carbon—Built to capture brilliance



	PRO TOOLS   CARBON	PRO TOOLS   CARBON PRE
Simultaneous I/O	25 x 34	24 x 24
Audio resolution	Up to 32-bit, 192 kHz	Up to 32-bit, 192 kHz
Mic preamps	8	8
Phantom power	+48V	+48V
Integrated monitoring and talkback	Yes	No
Form factor	1U rack-mountable unit	1U rack-mountable unit
Dimensions (H x W x D)	1.8 x 19 x 13.5 inches (45 x 482 x 343 mm)	1.8 x 19 x 13.5 inches (45 x 482 x 343 mm)
Weight	17.3 lbs (7.8 kg)	11 lbs (5 kg)
Connectivity	2 AVB Ethernet ports for host connection and expansion	2 AVB Ethernet ports for Pro Tools   Carbon I/O expansion or host connection
Maximum I/O expansion	Pro Tools   Carbon supports up to two Pro Tools   Carbon Pre interfaces for up to 24 mic/line inputs and 24 line outputs	

## INPUTS AND OUTPUTS

Analog inputs	<ul style="list-style-type: none"> <li>8 balanced XLR/TRS mic/line inputs with Variable Z (impedance) on inputs 5–8, remote controllable from Pro Tools</li> <li>2 unbalanced Variable Z 1/4-inch TS instrument inputs</li> <li>8 balanced line inputs (DB25)</li> </ul>	<ul style="list-style-type: none"> <li>8 balanced XLR/TRS mic/line inputs with Variable Z (impedance) on inputs 5–8, remote controllable from Pro Tools</li> <li>2 unbalanced Variable Z 1/4-inch TS instrument inputs</li> <li>8 balanced line inputs (DB25)</li> </ul>
Analog outputs	<ul style="list-style-type: none"> <li>8 balanced line outputs (DB25)</li> <li>2 balanced 1/4-inch TRS monitor outputs</li> <li>4 stereo 1/4-inch TRS headphone outputs</li> </ul>	<ul style="list-style-type: none"> <li>8 balanced line outputs (DB25)</li> </ul>
Digital inputs	ADAT: 16 channels @ 44.1–48 kHz, 8 channels @ 88.2–96 kHz, 4 channels @ 176.4–192 kHz	
Digital outputs	ADAT: 16 channels @ 44.1–48 kHz, 8 channels @ 88.2–96 kHz, 4 channels @ 176.4–192 kHz	
Other I/O	<ul style="list-style-type: none"> <li>Word Clock I/O</li> <li>Footswitch input</li> </ul>	<ul style="list-style-type: none"> <li>Word Clock I/O</li> </ul>

## A/D CONVERSION

Mic preamps	<ul style="list-style-type: none"> <li>Dynamic Range: 126 dB (A-weighted)</li> <li>THD+N: -105 dB (0.00056%)</li> <li>Frequency Response: 20 Hz–20 kHz, ±0.1 dB</li> <li>EIN: -129 dB (A-weighted)</li> </ul>
Line inputs	<ul style="list-style-type: none"> <li>Dynamic Range: 125 dB (A-weighted)</li> <li>THD+N: -106 dB (0.0005%)</li> <li>Frequency Response: 20 Hz–20 kHz, ±0.1 dB</li> </ul>
Line inputs (True Bypass)	<ul style="list-style-type: none"> <li>Dynamic Range: 126 dB (A-weighted)</li> <li>THD+N: -113 dB (0.00022%)</li> <li>Frequency Response: 20 Hz–20 kHz, ±0.1 dB</li> </ul>
Instrument inputs	<ul style="list-style-type: none"> <li>Dynamic Range: 125 dB (A-weighted)</li> <li>THD+N: -103 dB (0.0007%)</li> <li>Frequency Response: 20 Hz–20 kHz, ±0.1 dB</li> </ul>

## D/A CONVERSION

Line outputs	<ul style="list-style-type: none"> <li>Dynamic Range: 120 dB (A-weighted)</li> <li>THD+N: -110 dB (0.0003%)</li> <li>Frequency Response: 20 Hz–20 kHz, ±0.1 dB</li> </ul>
Monitor outputs	<ul style="list-style-type: none"> <li>Dynamic Range: 120 dB (A-weighted)</li> <li>THD+N: -110 dB (0.0003%)</li> <li>Frequency Response: 20 Hz–20 kHz, ±0.1 dB</li> </ul>
Headphone outputs	<ul style="list-style-type: none"> <li>Power: 100 mW into 300 Ohm; 200 mW into 32 Ohm</li> <li>Dynamic Range: 116 dB (A-weighted)</li> <li>THD+N (32 Ohm): -87 dB (0.0045%)</li> <li>THD+N (300 Ohm): -100 dB (0.001%)</li> <li>Frequency Response: 20 Hz–20 kHz, ±0.1 dB</li> </ul>

## DSP ACCELERATION

HDX DSP	8 HDX DSP processors (2.8 GHz aggregated processing)
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