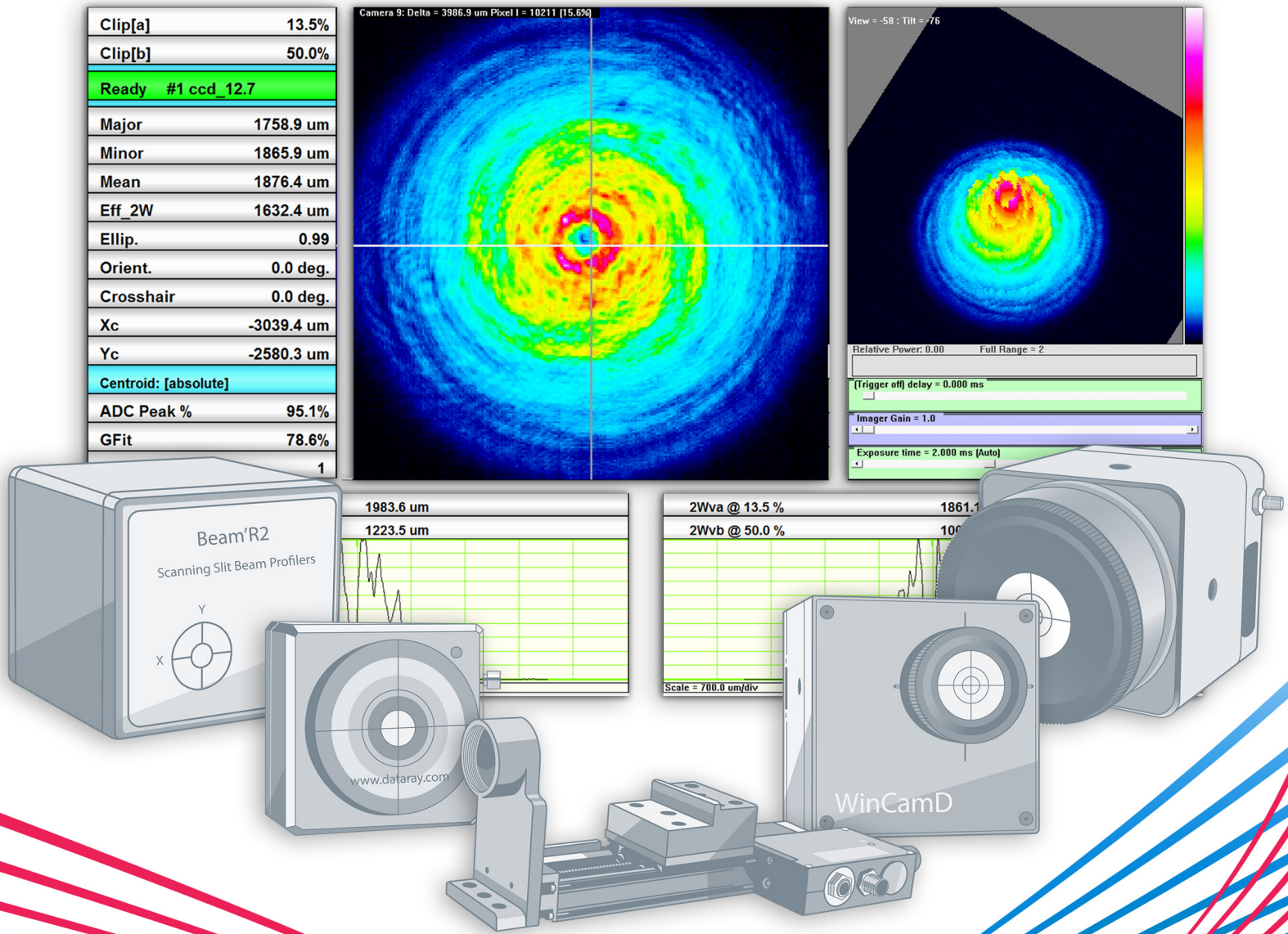


SCANNING SLIT



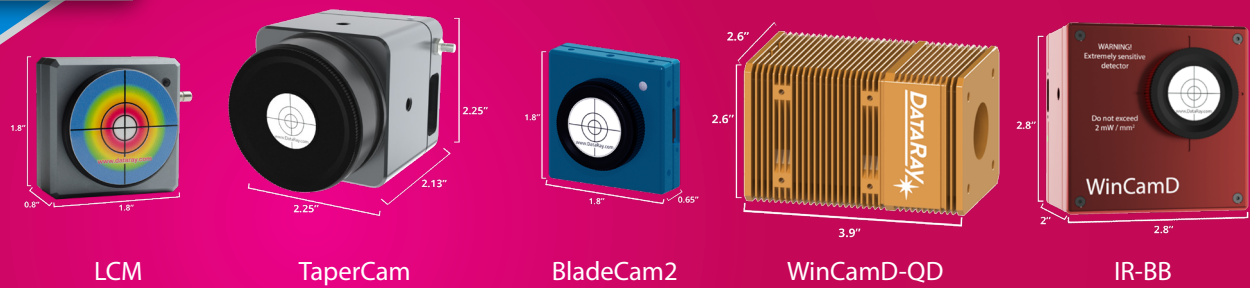
	Beam'R2	BeamMap2
Key Features	Integrated X and Y profiles	Real-time XYZθΦ measurement and focus finding Real-time pointing, divergence, and M ² measurements
Interface	USB 2.0 Port-powered	
CW or Pulsed?	CW, Pulsed Minimum PRR (Si detector) ≈ [500/(Beam diameter in μm)] kHz	
Wavelengths	Si: InGaAs: Si + InGaAs: Si + InGaAs, extended:	190 - 1150 nm 650 - 1800 nm 190 - 1800 nm 190 - 2500 nm
X-Y-Z Profiles, plus Θ-Φ	N/A	Yes, unique patented capability
Best Resolution	0.1 μm	
Smallest Beam	2 μm (Knife Edge mode)	
Largest Beam	See limits below this table	
Update Rate	5 Hz real-time (adjustable 2-10 Hz)	
M ² Measurement	Yes - with M2DU-BR accessory	Yes - real-time
Locate Focus	Yes - with M2DU-BR accessory	Yes - real-time
Pointing/Divergence	Yes - with M2DU-BR accessory	Yes - real-time
Switched Gain (Opt. dB)	32 dB	

BEAM PROFILING SELECTION GUIDE



Maximum Beam Size. Dimensions in ■ 4 Si Detector ■ 3 InGaAs ■ 2 Extended InGaAs

CAMERAS



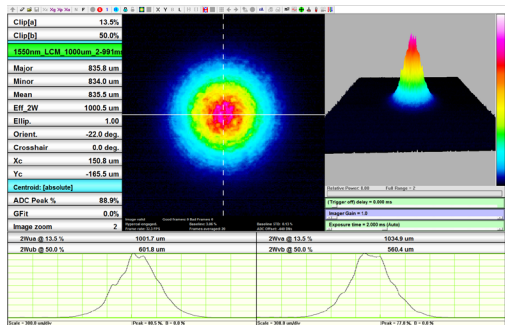
	WinCamD-LCM	TaperCamD-LCM	BladeCam2 -HR/XHR	WinCamD-QD -1550/2000	WinCamD-IR-BB
Imaged areas shown actual size.					
Image area (mm)	11.3 x 11.3	25 x 25	6.6 x 5.3 (HR) 6.5 x 4.9 (XHR)	9.6 x 7.7, up to 28.8 x 16.2	10.88 x 8.16
Sensor	1" CMOS		1/2" CMOS	SWIR CQD (1550) eSWIR CQD (2000)	Vanadium oxide (VOx) microbolometer
Resolution	2048 x 2048		1280 x 1024 (HR) 2048 x 1536 (XHR)	From 640 x 512 to 1920 x 1080	640 x 480
Pixel count	4.2 MPixel		1.3 MPixel (HR) 3.1 MPixel (XHR)	327 kPixel to 2.07 MPixel	307 KPixel
Pixel dimensions (µm)	5.5 x 5.5	12.5 x 12.5	5.2 x 5.2 (HR) 3.2 x 3.2 (XHR)	15 x 15	17 x 17
Wavelength range	355 - 1150 nm standard, see next page for others			400-1700 nm (1550) 350-2000 nm (2000)	Broadband MWIR/ FIR: 2 - 16 µm
Interface	USB 3.0 Port-powered			USB 3.0 or GigE	USB 3.0 Port-powered
CW or Pulsed ?	CW, Pulsed, Auto Trigger		CW/Quasi-CW	CW, Pulsed, Auto Trigger	CW, Pulsed > 1 kHz
Shutter type	Global		Rolling	Global	Rolling
Single pulse capture PRR	12.6 kHz		N/A	<3kHz	N/A
Min. beam (10 pixels) (µm)	~55	~125	~52 (HR) ~32 (XHR)	~150	~170
Max. frame rate (Hz)	60+		20+	25	30 (7.5 for export)
Signal to RMS Noise	2,500:1		1,000:1	>2100:1	≥1000:1
Electronic Shutter Dynamic Range (dB)	44		41	20	N/A
ADC	12-bit		10-bit	14-bit	14-bit

Ultraviolet and Telecom/NIR

- Ultraviolet
 - UV converters
 - Compatible with all standard cameras
 - Image Areas to 47 mm
 - Converts wavelengths as short as x-ray to visible
 - Reflective UV filter options available
 - Versatile beam profiling for 190-1150 nm
- Telecom/NIR
 - Phosphor coating (converts IR to visible)
 - Economical beam profiling for 1480-1610 nm
 - Longpass filter option
 - High resolution beam profiling for 1150-1350 nm
 - WinCamD-QD-1550 and WinCamD-QD-2000
 - Camera profilers for telecommunications wavelengths and beyond



UV Converter



Attenuation Options

- Polarization Preserving Beam Sampler (PPBS)
 - Dual wedged beam sampler
 - UV-FS, ZnSe, CaF₂, BaF₂ options for broad spectral coverage
 - High power handling with optional Beam Trap (BT-50) for beams up to 50 W
 - 17.5mm clear aperture standard, custom options available upon request
- Compact Beam Sampler (CBS)
 - High reflectance mirror with high power handling
 - Short optical path length (< 30 mm)
 - Great for focused beams



PPBS



CBS

Custom Systems

- Large Beam Profiling Systems (LBPS)
 - Objective planes up to 300 mm
 - Reflective system with speckle reduction
 - Transmissive system for non-coherent sources
- LensPlate2
 - Custom lens pairs designed for:
 - Magnifying very small focal spots
 - Re-imaging inaccessible beam waists
 - Factory calibrated
- Industrial Laser Monitoring System (ILMS)
 - Incorporates LensPlate2, PPBS, and beam profiler
 - Profile high power beams down to microns in diameter and beyond
 - Compatible with camera profilers for measuring complex profiles



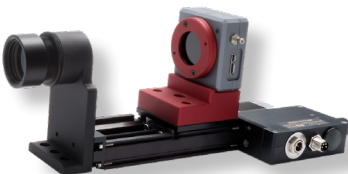
LBPS-TS



ILMS

Translation Stages

- 50, 200, 500, and 1000mm translation stages
- Fully automated in DataRay software
- ISO11146 compliant M² and divergence measurements
- Direct measurement of line lasers up to 1000mm in length with Line Laser Profiling System (LLPS)



M2DU-50-WCD



LLPS-200-LCM