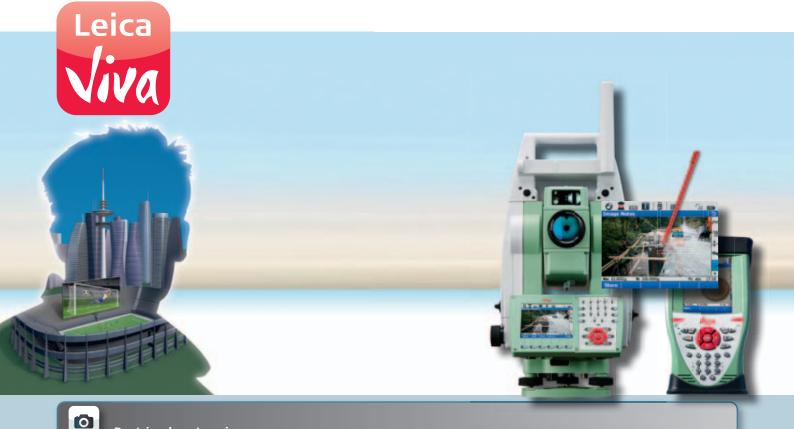
# **Leica Viva TS15** Datasheet



## Best-in-class Imaging

Optimize your productivity with exact photo documentation of site conditions. With live streaming of the total station view, you always know what the total station sees. Measure all points without returning to the total station.

- Image Notes Capture an image, screenshot or template, sketch on it and link it to any object in the database.
- Image Assisted Surveying Simply tap on the display and the total station will turn and measure the desired target.

#### Best-in-class One-Person-Surveying

Viva TS15 uses years of experience to optimally combine the world's best total station sensors: angles, distances, drives and the patented PowerSearch target recognition camera.

- **Search** the unique PowerSearch finds your prism within seconds
- Lock Viva TS15 stays locked onto your prism in the most demanding environments
- Measure PinPoint EDM seamlessly harmonizes with precise angle sensors to complete the measurement process

## Leica Viva GNSS Add-on

Add full GNSS functionality to your Viva TS15 whenever you want and combine TPS and GNSS in the most efficient way.

- Use SmartStation for TPS setup without the need of control points, traverses and resections
- Use SmartPole to save time with setup 'On-the-fly' and measure parallel with TPS and GNSS for double productivity

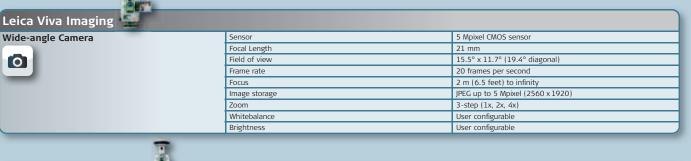


- when it has to be **right** 

# Technical Specifications TS15

Leica Viva TS15	TS15 M	TS15 A	TS15 G	TS15 P	TS15 I				
	1515 1	1919 A	1515 G	15151	15151				
Angle measurement	•	•	•	•	•				
Distance measurement to prism	•	•	•	•	•				
Distance measurement to any surface (reflectorless)	•	•	•	•	•				
Motorized	•	•	•	•	•				
Automatic Target Aiming	-	•	•	•	•				
PowerSearch (PS)	-	-	-	•	•				
Wide-Angle Camera	-	-	-	-	•				
RS232, USB and SD card interface	•	•	•	•	•				
	•	•	•	•	•				
Bluetooth									
Internal Flash Memory (1GB)	•	•	•	•	•				
Hotshoe interface for RH15	•	•	•	•	•				
Guide Light (EGL)	•	•	-	•	•				
Laser Guide	-	-	•	-	-				
SmartStation/SmartPole GS15 GNSS receiver	0	0	0	0	0				
SmartStation/SmartPole GS12 GNSS receiver	0	0	0	0	0				
Radio field controller CS10/CS15	0	0	0	0	0				
	= Standard	O = Optional	– = Not availa	ble					
Angular Measurement	Accuracy Hz, V <sup>1</sup> 1" (0.3 mgon), 2" (0.6 mgon), 3" (1 mgon), 5" (1.5 mgon)								
	Display resolution 0.1" (0.1 mgon)								
<b>A</b>	Method		absolute, continuous, diametrical						
	Compensation			Quadruple axis compensation					
	Compensator setting accu	IRACV			Igon) 1 5'' (0 5 mgon)				
Distance Mensurement			0.5 (0.2 mgori), 0.5	" (0.2 mgon), 1.0" (0.3 m	50/17, ±.5 (0.5 mg0m)				
Distance Measurement	Distance Measurement								
-	Range <sup>2</sup>		2500 /12000 02						
±	Round prism (GPR1)			3500 m (12000 ft)					
	3 Round prisms (GPR1)			5400 m (17700 ft)					
	360° prism (GRZ4, GRZ12		2000 m (7000 ft)						
	360° mini prism (GRZ101	)	1000 m (3300 ft)						
	Mini prism (GMP101)		2000 m (7000 ft)						
	Reflective tape (60 mm x	60 mm)	250 m (800 ft)						
	Accuracy <sup>3,4</sup> / Measurem	ent Time							
	Standard		1 mm + 1.5 ppm / typ. 2.4 s						
	Fast		3 mm + 1.5 ppm / typ. 2.4 3						
	Continuous		3 mm + 1.5 ppm / ty						
		(Amy Sunface)	5 mm + 1.5 ppm / ty	5. (0.153					
	Distance Measurement	(Any Surface)							
	Range <sup>6</sup>								
	PinPoint R30 / R400 / R1000   30 m (98 ft) / 400 m (1310 ft) / 1000 m (3280 ft)				11)				
	Accuracy <sup>3,7</sup> / Measurement Time								
	PinPoint R30 / R400 / R1000   2 mm + 2 ppm / typ. 3 s     Distance Measurement (Long range)								
	Distance Measurement (Long-range)								
	Long-range <sup>2,4</sup> >10000 m (>32800 ft)								
	Accuracy <sup>3,6</sup> / Measurement Time								
	Long-range 5 mm + 2 ppm / typ. 2.5 s								
	General								
	Display resolution		0.1 mm						
	Shortest measurable distance		1.5 m						
	Method		System analyzer based	on phase shift measureme	ent (coaxial, visible red lase				
	Laser dot size (Non-Prism	1)	At 30 m: 7 mm x 10 n	nm, at 50 m: 8 mm x 20 m	im				
General	Operating system & Pro								
-	Operating System				Windows CE 6.0				
	Processor Freescale i.MX31 533 MHz ARM Core								
	Telescope								
	Magnification		30 x						
	Free objective aperture		40 mm						
	Field of view		1°30' (1.66 gon) / 2.7 m at 100 m						
	Focusing range								
	Focusing range Keyboard and Display		1.7 m to infinity						
	Keyboard and Display		1.7 m to infinity	COLOF TEL WITH LED DACK	ight and touch screen				
	Keyboard and Display Display		1.7 m to infinity 640 x 480 pixel (VGA		-				
	Keyboard and Display Display Keyboard		1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function	keys, 12 alphanumeric ke	-				
	Keyboard and Display Display Keyboard Position	nunication	1.7 m to infinity 640 x 480 pixel (VGA	keys, 12 alphanumeric ke	-				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm		1.7 m to infinity   640 x 480 pixel (VGA   36 keys (12 function   face I standard / face	keys, 12 alphanumeric ke II optional	ys), illumination				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor		1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces		1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI	keys, 12 alphanumeric ke II optional	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation	y devices	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s	stick				
	Keyboard and Display   Display   Keyboard   Position   Memory, Ports & Comm   Internal memory / Memor   Interfaces   Operation   Sensitivity of Circular level	y devices	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s	stick				
	Keyboard and Display   Display   Keyboard   Position   Memory, Ports & Comm   Internal memory / Memor   Interfaces   Operation   Sensitivity of Circular leve   Centering accuracy of Lass	y devices	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI R5232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Las Number of drives	y devices	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Las Number of drives Power Management	y devices	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Leve Centering accuracy of Leve Centering accuracy of Leve Number of drives Power Management Internal Battery	y devices	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Las Number of drives Power Management Internal Battery Operating Time	y devices	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI R5232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221)	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Las Number of drives Power Management Internal Battery Operating Time Voltage / Capacity	y devices 9 er plummet	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Las Number of drives Power Management Internal Battery Operating Time	y devices 9 er plummet	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI R5232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221)	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Las Number of drives Power Management Internal Battery Operating Time Voltage / Capacity Weight and Dimensions	y devices 9 er plummet	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Las Number of drives Power Management Internal Battery Operating Time Voltage / Capacity Weight and Dimensions	y devices I Ier plummet	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n al	stick				
	Keyboard and Display   Display   Keyboard   Position   Memory, Ports & Common   Internal memory / Memor   Interfaces   Operation   Sensitivity of Circular leve   Centering accuracy of Lass   Number of drives   Power Management   Internal Battery   Operating Time   Voltage / Capacity   Weight and Dimensions   Weight of Total Station / Battery	y devices er plummet s attery GEB221 / Tribrach GEB12	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertic Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah 1 4.9 - 5.5 kg / 0.2 kg	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n al	stick				
	Keyboard and Display   Display   Keyboard   Position   Memory, Ports & Common   Internal memory / Memor   Interfaces   Operation   Sensitivity of Circular leve   Centering accuracy of Las   Number of drives   Power Management   Internal Battery   Operating Time   Voltage / Capacity   Weight and Dimensions   Weight / Width / Length	y devices er plummet 5 sttery GEB221 / Tribrach GEB12 attions	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertic Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah 1 4.9 - 5.5 kg / 0.2 kg	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n cal / 0.8 kg 203 mm	stick				
	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leves Centering accuracy of Leves Number of drives Power Management Internal Battery Operating Time Voltage / Capacity Weight and Dimensions Weight and Dimensions Weight / Width / Length Environmental specifica	y devices I	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, Bluetooth® W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah 1 4.9 - 5.5 kg / 0.2 kg 345 mm / 226 mm / 2	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n cal / 0.8 kg 203 mm 0° C to +70° C	stick				
Juide Light (EGL)	Keyboard and Display Display Keyboard Position Memory, Ports & Comm Internal memory / Memor Interfaces Operation Sensitivity of Circular leve Centering accuracy of Las Number of drives Power Management Internal Battery Operating Time Voltage / Capacity Weight and Dimensions Weight of Total Station / Ba Height / Width / Length Environmental specifica Working / Storage tempent	y devices I	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah 1 4.9 - 5.5 kg / 0.2 kg 345 mm / 226 mm / 22	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n cal / 0.8 kg 203 mm 0° C to +70° C	stick				
Guide Light (EGL)	Keyboard and Display   Display   Keyboard   Position   Memory, Ports & Comm   Internal memory / Memor   Interfaces   Operation   Sensitivity of Circular leve   Centering accuracy of Las   Number of drives   Power Management   Internal Battery   Operating Time   Voltage / Capacity   Weight and Dimensions   Weight of Total Station / Ba   Height / Width / Length   Environmental specifica   Working / Storage temper   Dust / water (IEC 60529)	y devices I	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI R5232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah 4.9 - 5.5 kg / 0.2 kg -20° C to +50° C / -40 IP55 / 95%, non-conce	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n cal / 0.8 kg 203 mm 0° C to +70° C	stick				
$\odot$	Keyboard and Display   Display   Keyboard   Position   Memory, Ports & Comm   Internal memory / Memor   Interfaces   Operation   Sensitivity of Circular leve   Centering accuracy of Las   Number of drives   Power Management   Internal Battery   Operating Time   Voltage / Capacity   Weight and Dimensions   Weight of Total Station / Ba   Height / Width / Length   Environmental specifica   Working / Storage temper   Dust / water (IEC 60529)   Working Range	y devices I	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI RS232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah 1 4.9 - 5.5 kg / 0.2 kg 345 mm / 226 mm / 2 -20° C to +50° C / -44 IP55 / 95%, non-cond 5 - 150 m	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n cal / 0.8 kg 203 mm 0° C to +70° C	stick				
	Keyboard and Display   Display   Keyboard   Position   Memory, Ports & Comm   Internal memory / Memor   Interfaces   Operation   Sensitivity of Circular leve   Centering accuracy of Las   Number of drives   Power Management   Internal Battery   Operating Time   Voltage / Capacity   Weight and Dimensions   Weight of Total Station / Ba   Height / Width / Length   Environmental specifica   Working / Storage temper   Dust / water (IEC 60529)	y devices I	1.7 m to infinity 640 x 480 pixel (VGA 36 keys (12 function face I standard / face 1 GB (nonvolatile NAI R5232, <i>Bluetooth®</i> W 6' / 2 mm 1.5 mm at 1.5 m 1 horizontal / 1 vertice Lithium Ion 5 - 8 h (GEB221) 7.4 V / 4.4 Ah 4.9 - 5.5 kg / 0.2 kg -20° C to +50° C / -40 IP55 / 95%, non-conce	keys, 12 alphanumeric ke II optional ND Flash) / SD card, USB s ireless-Technology, USB n cal / 0.8 kg 203 mm 0° C to +70° C	stick				

eica Viva One-Person-Surveyi lotorization	Rotation speed					
	Rotation speed	43 (30 g01)/5				
Itomatic Target Aiming (ATR)	Range	ATR Mode	Lock Mode			
	Round prism (GPR1)	1000 m (3300 ft)	800 m (2600 ft)			
	360° prism (GRZ4, GRZ122)	800 m (2600 ft)	600 m (2000 ft)			
	360° mini prism (GRZ101)	350 m (1150 ft)	300 m (1000 ft)			
	Mini prism (GMP101)	500 m (1600 ft)	400 m (1300 ft)			
	Reflective tape (60 mm x 60 mm)	55 m (175 ft)	-			
	Shortest distance to 360° prism	1.5 m	5 m			
	Accuracy <sup>1</sup> / Measurement Time	Accuracy <sup>1</sup> / Measurement Time				
	ATR angle accuracy Hz, V	1" (0.3 mgon)				
	Base positioning accuracy	±1 mm				
	Measurement Time for GPR1	3 - 4 s				
	Maximum speed (Lock Mode)	Maximum speed (Lock Mode)				
	Tangential (standard mode)	5 m / s at 20 m, 25 m / s at 100 m				
	Radial (tracking mode)	4 m / s				
	Searching					
	Search time in field of view	Typ. 1.5 s				
	Field of view	1° 30′ (1.66 gon)				
	Definable search windows	Yes				
	Method	Digital Image processing				
Power Search (PS)	Range					
	Round prism (GPR1)	300 m (1000 ft)				
	360° reflector <sup>s</sup> (GRZ4, GRZ122)	300 m (1000 ft)				
	Mini prism (GMP101)	100 m (330 ft)				
	Shortest distance	1.5 m				
	Searching	Searching				
	Typical search time	5 – 10 s				
	Default search area	Hz: 360° (400 gon), V: 36° (40 gon)				
	Definable search windows	Yes				
	Method	Digital Image processing (rotating laser fan)				



Leica Viva SmartStation				
Add-on GS12 / GS15	Position accuracy <sup>9,10</sup>	Horizontal: 10 mm + 1 ppm, Vertical: 20 mm + 1 ppm		
	RTK Initialization			
	Reliability / Time of initialization	>99.99% / Typically 8 s, with 5 or more satellites on L1 and L2		
	Range	Up to 50 km, assuming reliable data-link is available		
	RTK Data formats for data reception	Leica proprietary formats (Leica, Leica 4G), GPS and GNSS real-time data		
		formats, CMR, CMR+, RTCM v2.1 / 2.2 / 2.3 / 3.x		
	GNSS Antenna			
	Number of channels	GS15: 120		
		GS12: 120		
	Dimensions (diameter x height)	GS15: 196 mm x 198 mm		
		GS12: 186 mm x 89 mm		
	Weight	GS15: 1.34 kg		
		GS12: 1.05 kg		

<sup>1</sup> Standard deviation ISO 17123-3

<sup>2</sup> Overcast, no haze, visibility about 40 km; no heat shimmer

- <sup>3</sup> Standard deviation ISO 17123-4
- 4 To Round Prism GPR1
- <sup>5</sup> Fast Mode
- <sup>6</sup> Object in shade, sky overcast, Kodak Grey Card (90% reflective)
- <sup>7</sup> Distance >500 m 4 mm + 2 ppm
- <sup>8</sup> Target perfectly aligned to the instrument
- <sup>o</sup> Measurement precision, accuracy and reliability are dependent upon various factors including number of satellites, geometry, obstructions, observation time, ephemeris accuracy, ionospheric conditions, multipath etc. Figures quoted assume normal to favorable conditions. Times can also not be quoted exactly. Times required are dependent upon various factors including number of satellites, geometry, ionospheric conditions, multipath etc. The following accuracies, given as root mean square, are based on real-time measurements.
- <sup>10</sup> When used within reference station networks the position accuracy is in accordance with the accuracy specifications provided by the reference station network.

Whether you want to stake-out an object on a construction site or you need accurate measurements of a tunnel or a bridge; whether you want to determine the area of a parcel of land or need the position of a power pole or to capture objects for as-built maps - you need reliable and precise data.

Leica Viva combines a wide range of innovative products designed to meet the daily challenges for all positioning tasks. The simple yet powerful and versatile Leica Viva hardware and software innovations are redefining state-of-the-art technology to deliver maximum performance and productivity. Leica Viva gives you the inspiration to make your ambitious visions come true.

#### When it has to be right.





Total Quality Management our commitment to total customer satisfaction.

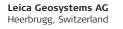
Distance meter (Prism), ATR and PowerSearch: Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1

Laser plummet: Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1

Distance meter (Non-Prism): Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1



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www.leica-geosystems.com



Leica Viva Overview brochure

Leica Viva GNSS

Product brochure

781664en - IX.10 - RDV



Viva



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Leica SmartWorx Product brochure



Leica Viva LGO

Product brochure



Leica Zeno Product brochure



- when it has to be right