# PRODUCT PROGRAM 2018 ENGLISH | 03/2018

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We at KAHLES share the passion and professionalism of ambitious shooters and hunters.

We passionately support their aspiration to continually enhance performance. We do this with intuitive simple and smart products, which impress with uncompromised focus on the real essentials, based on profound user insight and a wealth of know-how.

## CONTENT

COMPETITION	6	ACCESSORIES
<b>K525i</b> 5-25x56i	8	
<b>K318i</b> 3.5-18x50i	12	LEGEND
<b>K624i</b> 6-24x56i	14	RETICLES
<b>K312i</b> 3-12x50i	16	Competition
<b>K1050</b> 10-50x56	18	Hunt
<b>K1050i FT</b> 10-50x56i	20	
<b>K16i</b> 1-6x24i	22	TABLES
<b>K4i</b> 4x30i	24	Competition
		Riflescopes
HUNT	26	Hunt
<b>HELIA</b> 1-5x24i	28	Riflescopes
<b>HELIA</b> 2-10x50i	30	Binoculars
<b>HELIA</b> 2.4-12x56i	32	
HELIA 3 3-9x42	34	
HELIA 3 4-12x44i	36	
HELIA 3 3-10x50i	38	
Automaticlight	40	
Ballistic Drop Compensation	42	
HELIA RF 8x42, 10x42	44	

,	
<b>HELIA</b> 8x42, 10x42	46
HELIA 8x56	48

# COMPETITION

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## **K525i** PROFESSIONAL CHOICE FOR HIGHEST DEMANDS

The K525i combines maximum optical performance and precision with unique handling and ergonomics. A rugged riflescope for professionals, with windage optional left or right, precise illuminated reticles in 1<sup>st</sup> focal plane and the unique TWIST GUARD windage.

- Maximum optical performance field of view, high contrast image, high definition
- Absolutely reliable repeat accuracy and precise, clearly defined click mechanism
- Optional left or right side windage
- Parallax wheel integrated into the elevation turret (patented) 20 m − ∞
- Innovative TWIST GUARD windage (patented)
- Precise illuminated reticle in 1<sup>st</sup> focal plane







Parallax wheel integrated into the elevation turret (patented), windage optionally left or right.

Superior handling and ergonomics thanks to the unique arrangement of operating elements

Due to the unique arrangement, all operating elements can easily and comfortably be operated with the intuitively preferred hand. Without having to reach over the riflescope or having to move out of the shooting position, all relevant information is always in the visual field.

All riflescopes of the K-series have the parallax wheel integrated into the elevation turret. The patented central arrangement on top of the riflescope makes right and left-handed operation equally comfortable.

Ergonomically the windage is perfectly placed on the left side for right-handed shooters and on the right side for left-hand shooters.

#### NEW: Unique TWIST GUARD windage (patented)

The innovative TWIST GUARD windage with it's freely rotating end cover, reliably preventing accidental movement of the windage. This simple solution not only protects the windage from accidental movement, it also allows the shooter fast and unhindered handling of the windage without the need for cumbersome "locking" and unlocking".



NEW TWIST GUARD windage.



MOAK turret with three planes of rotation and indicator pin.

#### Maximum precision with the special MOAK reticle and 1/4 MOA click adjustment

The ¼ MOA click adjustment and a perfectly designed reticle in the 1<sup>st</sup> focal plane guarantee maximum precision over long distances. The specially designed MOAK turret has a 3<sup>rd</sup> rotational plane and allows simple, precise operation over the entire adjustment range.



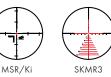


#### FEATURES





RETICLES



# K318i **ULTRASHORT** PRECISION TOOL

The K318i means optical and mechanical perfection packed into an ultrashort design. With precise illuminated reticles in 1<sup>st</sup> focal plane, sharply defined throughout the entire magnification range and the unique TWIST GUARD windage.

- Ultrashort and lightweight riflescope for • demanding shooters
- Absolutely reliable repeat accuracy and precise, • clearly defined click mechanism
- Wide field of view and exceptional high ٠ contrast image
- Innovative TWIST GUARD windage (patented) •
- Parallax wheel integrated into the elevation turret • (patented)  $25 \text{ m} - \infty$
- Precise illuminated reticles in 1<sup>st</sup> focal plane •









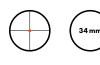


6-24x56i



Special model in RAL 8000: High quality, scratch-resistant coating MSR/Ki reticle, windage left, CCW

#### FEATURES









RETICLES

MSR/Ki

Mil4

Mil3\*





AMR\*





The K624i sets standards in handling and ergonomics thanks to the unique arrangement of its operating elements. It offers outstanding optical performance, mechanical perfection and a unique range of well proven reticles for professionals and competition shooters.

#### PRODUCT **HIGHLIGHTS**

- Wide field of view, exceptionally comfortable ٠ eyebox and high contrast image
- Precise, clearly defined click mechanism and ٠ reliable repeat accuracy
- Optional left or right side windage
- Parallax wheel integrated into the elevation turret • (patented) 50 m – ∞
- Precise illuminated reticles in 1<sup>st</sup> focal plane •

\* While stocks last



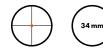


The K312i sets standards in handling and ergonomics thanks to the KAHLES exclusive arrangement of its operating elements. It provides outstanding optical performance, a well proven magnification range and practical reticles.

#### PRODUCT **HIGHLIGHTS**

- Professional riflescope with excellent optical ٠ performance and perfect click mechanism
- Left side windage •
- Parallax wheel integrated into the elevation turret • (patented) 25 m – ∞
- Precise illuminated reticles in 1<sup>st</sup> focal plane

#### FEATURES



MIL



3-12x50i

RETICLES



Mil7









30 mn







MOAK

## Crosshair Dot

# K1050 COMPETITION SHOOTING WITH EXTREME MAGNIFICATION

The K1050 has been specifically designed to provide optimum precision for competition shooting. Weighing just 890 g and only 429 mm long, with its unique parallax adjustment, starting from just 8 metres, it provides unparalleled precision.

- Maximum precision for competition shooting ٠
- Perfect image quality, even at 50 x magnification
- Parallax wheel integrated into the elevation turret • (patented) 8 m – ∞
- Non-illuminated reticle with fine structure for • maximum precision





#### FEATURES









# **K1050i FT** FIELD TARGET FOR PERFECTIONISTS

The K1050i FT offers a uniquely precise experience. With the special parallax focus ranging from 8 to 60 metres and an illuminated reticle in the 2<sup>nd</sup> focal plane, it has been optimally designed for field target competitions.

### PRODUCT HIGHLIGHTS

- Developed together with professionals for highest precision in field target competitions
- Perfect image quality, even at 50 x magnification
- Parallax wheel integrated into the elevation turret (patented) 8 60 m
- Illuminated reticle with fine structure for maximum precision
- Also available with silver coating



20





# **K16i** FAST TARGET ACQUISITION IN TOUGHEST ENVIRONMENTS

The K16i is ideal for acquiring targets within a very short time thanks to its ultra-wide field of view. Sport shooters benefit from the extra-high nose and the large, easy to use adjustment ring.

## PRODUCT HIGHLIGHTS

- Sporty riflescope with ultra-wide field of view for fast target acquisition
- Developed for even the toughest demands
- Extra bright day/night illuminated reticles in the second focal plane
- OILPHOBIC coated lenses
- NEW: 3GR reticle for IPSC and 3 Gun

#### FEATURES

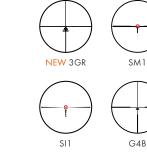




30 mn

MIL





RETICLES





#### FEATURES

RETICLES





**K4i** FAST TARGET ACQUISITION WITH 4 X MAGNIFICATION

The K4i has been designed for the toughest demands and is optimised for fast target acquisition and a maximum overview at short to medium distances.

- 4 x optics with extra large exit pupil, 91 % light transmission and diopter compensation
- Durable prism design with illuminated reticle, continuously adjustable
- Precise click adjustment 1.5 cm/100 m
- Ergonomic design and rugged construction
- Three integrated Picatinny (MIL STD 1913) rails for attaching accessories
- Includes integrated Picatinny mounting

# HUNT

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## HELIA 1-5x24i IDEAL FOR DRIVEN HUNT

The HELIA series impresses with uncompromising focus on the real essentials: functionality, reliability, handling and aesthetics. The perfect tool for hunting.

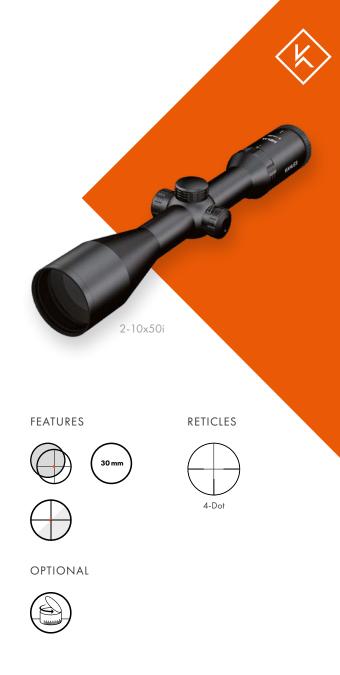
- Real compact driven hunt optics with an ultra-wide field of view reaching 42 m/100 m
- Powerful optics system with exceptional edge sharpness
- True 1 x magnification for irritation-free viewing with both eyes
- Extra-bright day/night illuminated reticle with intelligent automatic switch-off
- OILPHOBIC coated lenses



## HELIA 2-10x50i PERFECT FOR STALKING GAME

The HELIA series impresses with uncompromising focus on the real essentials: functionality, reliability, handling and aesthetics. The perfect tool for hunting.

- Light and compact game stalking optics
- Perfect all-rounder with large, high-contrast field of view and excellent performance during dawn and dusk
- Powerful optics system with exceptional edge sharpness
- Day/night illuminated reticle with intelligent automatic switch-off
- OILPHOBIC coated lenses



## HELIA 2.4-12x56i TOP-CLASS FOR HIDE/STAND HUNTING

The HELIA series impresses with uncompromising focus on the real essentials: functionality, reliability, handling and aesthetics. The perfect tool for hunting.

- Ideal for hide/stand hunting with exceptionally high light transmission, whether dawn, dusk or night
- Perfect image with best contrast and wide, brilliant field of view
- Powerful optics system with exceptional edge sharpness
- Day/night illuminated reticle with intelligent automatic switch-off
- OILPHOBIC coated lenses







## **HELIA 3** 3-9x42 LIGHTWEIGHT AND FOR THE PURIST

The HELIA 3 series combines classic elegance with the latest high-quality technology and superb, premium optics. Existing attachments for 1-inch main tubes can still be used in most cases.

- Superb stalking optics lightweight and for the purist
- Classic slim design with 1-inch main tube Ø (25.4 mm)
- Aluminium main tube anodised in matt black with scratch-resistant surface
- The lightest optics in its quality class (450 g)



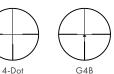


FEATURES



25.4 mr 1"





OPTIONAL



## HELIA 3 4-12x44i For stalking AND Mountains

The HELIA 3 series combines classic elegance with the latest high-quality technology and superb, premium optics. Existing attachments for 1-inch main tubes can still be used in most cases.

- Brilliant optics for stalking and hunting in the mountains
- Classic slim design with 1-inch main tube Ø (25.4 mm)
- Aluminium main tube anodised in black matt-finish with scratch-resistant surface
- Day/night illuminated reticle with intelligent automatic switch-off
- 12 x magnification, weighting just 485 g





The HELIA 3 series combines classic elegance with the latest high-quality technology and superb, premium optics. Existing attachments for 1-inch main tubes can still be used in most cases.

### PRODUCT HIGHLIGHTS

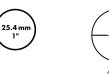
- Classic all-rounder with high light transmission
- Classic slim design with 1-inch main tube Ø (25.4 mm)
- Aluminium main tube anodised in matt black with scratch-resistant surface
- Day/night illuminated reticle with intelligent automatic switch-off

3-10x50i

RETICLES

#### FEATURES





4-Dot G4B

OPTIONAL



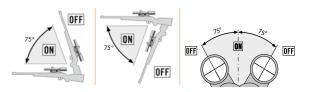


## AUTOMATIC-LIGHT

# The intelligent reticle illumination for longer battery life



All illuminated hunting riflescopes are equipped with a tilt sensor. This detects whether or not the riflescope is in a shooting position. The sensor transmits this information immediately to the illumination unit and controls thereby its switching on and off, in order to save valuable energy when not in use.



#### Active mode

 The switched on reticle illumination with automaticlight is always active in the angular range of 75° (right/left).

#### Standby mode

- After being motionless for 2 minutes in active mode, the backlight turns off and enters "Standby" mode. For reactivation from the "Standby" mode the smallest movement is sufficient and the reticle illumination is activated in fractions of a second with the last selected brightness.
- Angles ranging from 45° 75° (up/down) trigger the "Standby" mode, regardless if motion is sensed or not after 2 minutes.
- From an angle range of more than 75° (up/down/ side), the reticle illumination switches off immediately and switches to "Standby" mode.

After 2 hours of inactivity, the lighting switches off completely. To reactivate the lighting unit, the rotary switch must be switched off and on again.

## BALLISTIC DROP COMPENSATION

# The ideal assistant for quick shots on longer distances



Ballistic Drop Compensation (optional)

#### Work out the distance – adjust the ballistics – and go!

With the KAHLES ballistic drop compensation (BDC) achieving reliable shooting accuracy has never been so easy and straightforward. It eliminates the need to guess how far to aim above the target, no matter how far away it is. It excels with simple use and rugged design.

All products, which are available with the KAHLES BDC are marked with the icon above.



The click adjustment tool, combined with the ballistic ring, enables the required shooting distance to be set extremely quickly and intuitively. The rugged case cover protects against accidental movement of the elevation as well as all kinds of external hazards. The cap can quickly be folded up, a magnetic lock prevents from accidental opening.

An opening on the case of the KAHLES ballistic drop compensation device, positioned to be within the user's field of view, makes it easy to read and check the values that have been set, even when the case is closed.





## HELIA 42 RF COMFORTABLY EASY AND RELIABLE

The lightweight and ergonomic HELIA RF perfectly combines high performance optics with intuitively simple and reliable targeting up to 1,500 m. With innovative Waldkauz<sup>®</sup> loden cover, scan mode and EAC (Enhanced Angle Compensation) function – patent pending.

#### PRODUCT HIGHLIGHTS

- Easy and reliable targeting up to 1,500 m
- EAC-function (Enhanced Angle Compensation) for angle correction – patent pending
- Intuitive simple menu navigation
- Premium-quality OLED display with five manual brightness settings and display in meter or yards
- Scan mode for continuous measurement
- Extra long battery lifetime ~ 3,000 measurements
- Lightweight and ergonomic binocular with innovative Waldkauz<sup>®</sup> loden protective cover and leather strap

## **NEW** WITH RANGEFINDER









# HELIA 42 IDEAL FOR STALKING AND HUNTING IN THE MOUNTAINS

The natural colours, the lightweight, balanced design with the open bridge and the unique, silent protective cover made of high-quality loden cloth are perfectly suited for inconspicuous carrying and observing on the hunting ground.

- Natural, earthy colours
- Lightweight and balanced with ergonomic open bridge design
- Superb image quality in daylight, as well as at dawn or dusk
- Rugged, fog-free and waterproof
- Innovative accessories made of high-quality and noiseless natural materials made by Waldkauz<sup>®</sup>





NEW

8x56

## HELIA 56 Made for The Night

The light sensitive HELIA 8x56 is perfectly right for the night. It persuades with a brilliant optic. Its pronounced individuality is underlined by the ergonomic design, the natural colour and the Waldkauz<sup>®</sup> leather strap with its well matching colours.

- Brilliant, clear image even at night
- Natural, earthy colours
- Rugged, fog-free and waterproof
- Waldkauz<sup>®</sup> leather strap with quick disconnect for easy removal



# ACCESSORIES

		For eyepiece and objective lens			
	Sunshield	Flip up Cover	Killflash	Ballistic Drop Compensation	Parallax wheel attachment
K525i	1	1	1		
K318i	1	1	1		
K624i	1	1	1		
K312i	1	1	1		
K1050	1	1	1		~
K 1050i FT	✓ (black/silver)	1	1		1
K16i		1	J		
K4i	1				
HELIA 1-5x24i		1	1	✓	
HELIA 2-10x50i	1	1	1	1	
HELIA 2.4-12x56i	1	1	5	1	
HELIA 3 3-9x42				1	
HELIA 3 4-12x44i				1	
HELIA 3 3-10x50i	1		1	1	



# LEGEND **FEATURES**







Main tube 25.4 mm



Main tube 34 mm



Adjustment direction CCW



MOA

30 mm Main tube 30 mm



Adjustment direction CW



Adjustment direction CW or CCW



MIL



MOA or MIL



Windage right



SR-Rail (optional)



windage



Automaticlight





Windage left or right

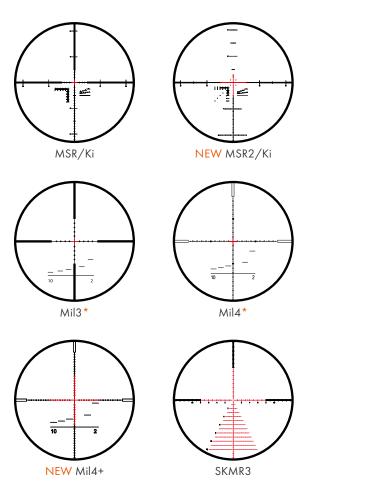


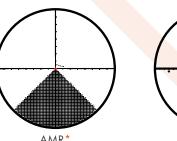
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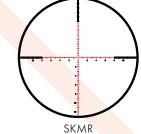
Ballistic Drop Compensation (optional)



## RETICLES **COMPETITION**



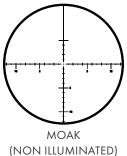


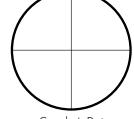












Crosshair Dot (NON ILLUMINATED)

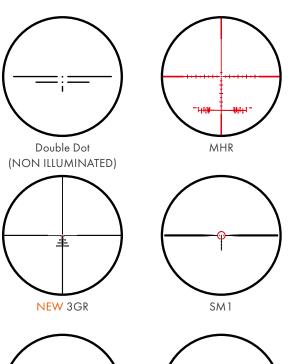
\* While stocks last

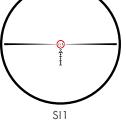
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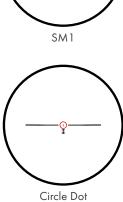


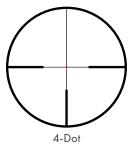
## RETICLES COMPETITION

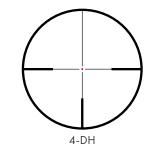
RETICLES HUNT





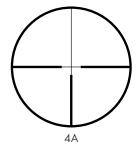








(also available for K16i)



(NON ILLUMINATED)

# TABLES COMPETITION

Riflescopes	K1050	K 1050i FT	<b>K525i</b> NEW 8/18	K624i	<b>K318i</b> NEW 4/18	K312i	K16i	K4i
Magnification	10-50	10-50	5-25	6-24	3.5-18	3-12	1-6	4
Objective lens diameter (mm)	56	56	56	56	50	50	24	30
Exit pupil diameter (mm)	5.5-1.1	5.5-1.1	9.5-2.3	9.4-2.3	6.9-2.8	9.7-4.2	9.6-4.7	7.5
Eye relief (mm)	95	95	95	90	92	90	95	95
Field of view (m/100 m)	2.9-0.6	2.9-0.6	7.1-1.5	6.8-1.7	9.3-2.0	11.1-3.3	42.3-6.7	9.1
Diopter compensation (dpt)	+2/-3.5	+2/-3.5	+2/-3.5	+2/-3.5	+2.5/-3.5	+2/-3.5	+2/-3.5	+2/-3.5
Twilight factor (DIN 58388)	23.6-52.9	23.6-52.9	16.7-37.4	18.3-36.7	13.2-30.0	10.4-24.5	3.1-12.0	11
Parallax adjustment (m)	8 till ∞	8 till 60	20 till ∞	50 till ∞	25 till ∞	25 till ∞	100	100
Impact correction per click	1/8 MOA	1/8 MOA	.1 MRAD 1/4 MOA	.1 MRAD 1/4 MOA	.1 MRAD	.1 MRAD	.1 MRAD	0.15 MRAD
Adjustment range E/W (m/100 m)	1.6/1.2	1.6/1.2	2.9/1.3	2.5/1.1	3.0/1.5	2.5/1.2	2.2/2.2	2.0/2.0
Tube diameter (mm)	30	30	34	34	34	34	30	
Objective filter thread	M58 x 0.75	M58 x 0.75	M58 x 0.75	M58 x 0.75	M52 x 0.75	M52 x 0.75	M27 x 0.75	M33 x 0.75
Length (mm)	429	429	377	405	313	376	278	177
Weight (g)	890	1040*	970	950	924	836	480	680
Focal plane	2.	2.	1.	1.	1.	1.	2.	
Reticle	DD, CH, MOAK	MHR	MSR2/Ki, Mil4+, SKMR3, SKMR, MOAK	MSR/Ki, Mil3 <sup>(D)</sup> , Mil4 <sup>(D)</sup> , SKMR3, AMR <sup>(D)</sup> , SKMR, MOAK	SKMR3, MSR/Ki	Mil7, MSR/Ki	SI1, SM1, G4B, 3GR – NEW	CD
Illumination		1	1	1	1	1	1	1
Adjustment direction	CCW	CCW	cw/ccw	cw/ccw	CW/CCW	CW	CW	CCW
Windage	right	right	left/right	left/right	right	left	right	right
Zero Stop			1	1	1	1		
TWIST GUARD			1		1			

TABLES HUNT

Riflescopes	HELIA 1-5x24i	HELIA 2-10x50i	HELIA 2.4-12x56i	HELIA 3 3-9×42	HELIA 3 4-12x44i	HELIA 3 3-10×50i
Magnification	1-5	2-10	2.4-12	3-9	4-12	3-10
Objective lens diameter (mm)	24	50	56	42	44	50
Eye relief (mm)	95	95	95	90	90	90
Field of view (m/100 m)	42.4-8.1	21.0-4.1	16.5-3.3	12.1-4.3	9.2-3.3	11.2-4.0
Diopter compensation (dpt)	+2/-3.5	+2/-3.5	+2/-3.5	+2/-3.5	+2/-3.5	+2/-3.5
Twilight factor (DIN 58388)	3.0-11.0	6.2-22.4	7.4-25.9	11.2-19.4	13.3-23.0	12.0-22.4
Impact correction per click (mm/100m)	10	10	10	10	10	10
Adjustment range E/W (m/100 m)	2.5/2.5	1.6/1.6	1.9/1.9	1.5/1.5	1.1/1.1	1.3/1.3
Tube diameter (mm)	30	30	30	25.4	25.4	25.4
Objective filter thread	M27 x 0.75	M52 x 0.75	M58 x 0.75	M44x0.75	M46x0.75	M52 x 0.75
Length (mm)	278	341	359	313	351	325
Weight (g)	475	585	680	450	485	508
Weight inlcuding SR-rail (g)	499		704			
Focal plane	2.	2.	2.	2.	2.	2.
Reticle	4-DH	4-Dot	4-Dot, G4B	4A	4-Dot, G4B	4-Dot, G4B
Illuminated, automaticlight	5	J	1		J	1
Ballistic drop compensation (optional)	1	1	1	$\checkmark$	1	1
SR-rail (optional)	1		1			

TABLES HUNT

Binoculars	HELIA HELIA HELIA   8x42 10x42 8x56   NEW 8/18		HELIA RF 8x42 NEW	HELIA RF 10x42 NEW	
Magnification	8	10	8	8	10
Objective lens diameter (mm)	42	42	56	42	42
Eye relief (mm)	20	20	18	18.5	16.5
Field of view (m/1,000 m)	126	114	122	125	107
Field of view (°)	7.2	6.5	7	7.1	6.1
Field of view apparent (°)	54	54	52	56	59
Exit pupil diameter (mm)	5.3	4.2	7.0	5.3	4.2
Diopter compensation (dpt)	+/-4	+/-4	+/-3	+/-4	+/-4
Interpupillary distance (mm)	56-73	56-73	56-76	58-72	58-72
Height x Width x Depth (mm)	150 x 127 x 51	150 x 127 x 51	211 x 156 x 66	148 x 131 x 71	148 x 131 x 71
Weight (g)	750	770	1246	880	880
Close focus (m)	2	2	4	5	5
Twilight factor (ISO 14132-1)	18.3	20.5	21.2	18.3	20.5
Measurement range (m)				10-1,500	10-1,500
Range-finding accuracy (m)				+/-1 up to 100 +/-2 up to 1,000 +/-0.5% over 1,000	+/- 1 up to 100 +/-2 up to 1,000 +/-0.5% over 1,000
Measurement duration (s)				1	1
Brightness levels				5	5
Laser category				1M	1M



Please visit us on our website

Subject to technical changes. For more details please visit our website.

KAHLES Gesellschaft m.b.H. | Danfoss-Straße 5 | 2353 Guntramsdorf, Austria T +43 2236 520 20 0 | E info@kahles.at | kahles.at

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