

# The SPIEGEL-RELASKOP® by Dr. Bitterlich and its different scales

## Common to all Relascope Scales:

All readings automatically slope-corrected  
Diameter measurement within 1/2% of distance to tree

## Differences between Relascope Scales:

	AMERICAN	WIDE	METRIC STANDARD	METRIC CP
Vertical Degree Scale (-60 to +70 degrees) Vertical Percent Scales (-170 to +270 percent)	yes	yes	no	yes
Topographic Scales	yes	no	no	no
Range of BAFs for bars	5-90 ft <sup>2</sup> /ac ~ 1-21 m <sup>2</sup> /ha	1-144 m <sup>2</sup> /ha ~ 4-625 ft <sup>2</sup> /ac	1-4 m <sup>2</sup> /ha ~ 4-17 ft <sup>2</sup> /ac	1-81 m <sup>2</sup> /ha ~ 4-350 ft <sup>2</sup> /ac
Even BAFs on scale	5,10,20,40,90 ft <sup>2</sup> /ac	1,4,9,16,25, etc m <sup>2</sup> /ha	1,2,4 m <sup>2</sup> /ha	1,2,3,4,9,16,25 etc m <sup>2</sup> /ha
Range of dbh measurable	1/2% - 9%	1/2% - 24%	1/2% - 4%	1/2% - 18%
Direct Height readings from these distances	66 units	4,6,8,...,20 units	20,25,30 units	100 units
CP Correction scale for rangefinding	no	no	no	yes
Rangefinding Distances Determined	66 & 99 feet * <sup>0</sup>	9 standard distances 4 -20 m * <sup>1</sup>	15,20,25,30 meters * <sup>2</sup>	direct reading with attachment * <sup>3</sup>

\*<sup>0</sup> smaller values are possible with the quarter bars

\*<sup>1</sup> with use of vertical or horizontal target, resp. Wedge Prism Attachment with vertical base

\*<sup>2</sup> using RELASKOP distance scale and a vertical 2 m-target

\*<sup>3</sup> with use of horizontal staff of known length or percent scale with vertical 2 m-target or Wedge Prism Attachment with vertical base