Which Prime Lenses Cov This chart shows lens coverage for sp We only shows lenses which complete If your chosen camera/ shooting forms  Red Monstro 8K  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame	ecific camera sely cover the se at is not shown	ensor formats.	netting. A sma e image circle	Ø that is close	lumination fallo	ff is acceptable nat: https://www.satceptable 192 × 43 47mm 50mm 77mm		_	nal-of-rectangle  135mm
Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard	24mm 15mm 14mm 50mm 14mm 15mm 35mm 50mm 100mm 75mm 65mm 65mm 65mm 65mm	28mm 24mm 24mm 85mm 20mm 18mm 50mm 75mm 100mm 100mm 85mm 85mm 85mm	35mm 35mm 28mm 100mm 24mm 25mm 85mm 100mm 100mm 100mm 100mm 100mm 100mm	50mm 58mm 35mm 28mm 35mm	60mm 85mm 55mm 35mm 50mm	80mm 105mm 85mm 40mm 85mm	100mm 200mm 135mm 50mm 100mm	135mm 135mm 400mm 200mm 300mm 80mm 105mm 135mm	135mm
Arri Mini LF Open Gate  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron	100mm  36.70mm >  15mm 18mm 20.7mm 21mm 24mm 15mm 14mm 50mm 14mm 15mm 35mm 50mm 100mm	18mm 21mm 27mm 27mm 28mm 20mm* 24mm 85mm 20mm 18mm 50mm 75mm	21mm 25mm 37mm 32mm 35mm 24mm 28mm 100mm 24mm 25mm 85mm 100mm	25mm 29mm 47mm 40mm 50mm 35mm 35mm 35mm	35mm 35mm 57mm 65mm Maci 60mm 58mm 55mm	47mm 50mm 77mm 75mm 80mm 85mm 85mm 40mm 85mm	58mm 65mm 107mm 100mm 100mm 105mm 135mm 50mm 100mm	75mm 125mm 85mm 100mm 137mm 135mm 152mm 135mm 200mm 400mm 200mm 300mm 80mm 105mm 135mm	135mm  * covers to T5.6  135mm
Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro  Red Monstro 8KHD  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R	65mm 65mm Macr 50mm 65mm 65mm 50mm 100mm 100mm 15mm 18mm 20.7mm 21mm 24mm	75mm 0 75mm 100mm 85mm 85mm 85mm 85mm 21.60mm ( 44) 18mm 21mm 27mm 27mm 28mm	100mm 100mm Mac 100mm 100mm 100mm  100mm  100mm  21mm 25mm 37mm 32mm 35mm	135mm 135mm	35mm 35mm 57mm 65mm Maci 60mm	7680 x 432 47mm 50mm 77mm ro 75mm 80mm	20 Pixels  58mm 65mm 107mm 100mm 100mm	75mm 125mm 85mm 100mm 137mm 135mm 152mm 135mm	135mm
Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro	15mm 14mm 50mm 14mm 15mm 35mm 50mm 100mm 65mm 65mm 65mm 32mm 65mm 50mm 100mm	20mm 24mm 85mm 20mm 18mm 50mm 75mm	24mm 28mm 100mm 24mm 25mm 85mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm 100mm	35mm 35mm 28mm 35mm	58mm 55mm 35mm 50mm	85mm 85mm 40mm 85mm	105mm 135mm 50mm 100mm	200mm 400mm 200mm 300mm 80mm 105mm 135mm	135mm
Red Monstro 7.5K Sony Venice 2 8K 3:2 Sony Venice 6K 3:2 Canon C700, C500 Mk2 FF 17:9  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i	35.90mm 3 35.90mm 3 38.10mm 3 15mm 18mm 20.7mm 21mm 24mm 15mm 14mm 15mm 14mm 15mm 35mm 25mm 50mm 65mm	20.40mm ( 43 24.00mm ( 43 24.00mm ( 43 24.00mm ( 43 20.10mm ( 43 21mm 21mm 27mm 27mm 28mm 20mm 24mm 85mm 20mm 18mm 50mm 35mm 75mm 75mm	3.18 mm Ø) 3.18 mm Ø) 3.18 mm Ø) 3.10 mm Ø)  21mm 25mm 37mm 32mm 35mm 24mm 28mm 100mm 24mm 25mm 100mm 100mm 100mm		35mm 35mm 57mm 65mm Maci 60mm 58mm 55mm 35mm 100mm	7680 x 408 8640 x 576 6048 × 408 5592 x 314 47mm 50mm 77mm 75mm 80mm 85mm 85mm 85mm	60 Pixels 32 Pixels	75mm 125mm 85mm 100mm 137mm 135mm 152mm 135mm 200mm 400mm 200mm 300mm 80mm 105mm 135mm	135mm 135mm
Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro  Red Monstro 7.5KHD  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL	65mm Macr 50mm 32mm 65mm 50mm 100mm 100mm 36.48mm > 15mm 18mm 20.7mm 21mm 19mm 15mm 14mm 50mm 14mm 15mm 15mm	100mm 65mm 85mm 85mm 85mm  20.52mm (4 <sup>-1</sup> 18mm 21mm 27mm 27mm 24mm 24mm 20mm 24mm 85mm 20mm 18mm 50mm 35mm	100mm Mac 85mm  100mm  100mm  100mm  1.86 mm Ø)  21mm  25mm  37mm  32mm  28mm  24mm  28mm  100mm  24mm  25mm  35mm  50mm	100mm 135mm	35mm 35mm 57mm 65mm Maci 50mm 58mm 55mm 35mm 50mm	7296 × 41 47mm 50mm 77mm 75mm 60mm 85mm 85mm 40mm 85mm	58mm 65mm 107mm 100mm 80mm 105mm 135mm 50mm 100mm	75mm 125mm 85mm 100mm 137mm 135mm 152mm 100mm 135mm 200mm 400mm 200mm 300mm 80mm 105mm 135mm	135mm
Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro  Arri Mini LF 4.3K 16:9 - UHD  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder	50mm 65mm 65mm Macr 50mm 32mm 65mm 50mm 100mm	75mm 75mm	100mm 100mm 100mm Mac 85mm	135mm cro 100mm 135mm	35mm 35mm 35mm 57mm 65mm Maci 50mm 58mm 55mm	4320 x 243 47mm 50mm 77mm ro 75mm 60mm 85mm 85mm	58mm 65mm 107mm 100mm 80mm 105mm 135mm	75mm 125mm 85mm 100mm 137mm 135mm 152mm 100mm 135mm 200mm 400mm 200mm 300mm	135mm
Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro  Sony Venice FF 6K 17:9 Red Monstro 7K Sony FX9 FF 4K 17:9	15mm 35mm 25mm 50mm 65mm 65mm Macr 50mm 32mm 65mm 100mm	18mm 50mm 35mm 75mm 75mm	25mm 85mm 50mm 100mm 100mm 100mm Mac 85mm 100mm	35mm 75mm 135mm 135mm cro 100mm 135mm	35mm 50mm 100mm	40mm 85mm 6054 x 319 7168 x 379 6008 x 210	100mm  92 Pixels 80 Pixels	80mm 105mm 135mm	135mm
Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Ultraprime Zeiss Superspeed Zeiss Standard	15mm 18mm 20.7mm 21mm 19mm 15mm 14mm 25mm 14mm 25mm 35mm 35mm 25mm 35mm 65mm 50mm 50mm 50mm 50mm	18mm 21mm 27mm 27mm 24mm 20mm 24mm 35mm 20mm 18mm 50mm 35mm 50mm 75mm 65mm Macro 100mm 40mm 85mm 85mm	21mm 25mm 37mm 32mm 28mm 24mm 28mm 50mm 24mm 25mm 85mm 50mm 75mm	25mm 29mm 47mm 40mm 35mm 35mm 35mm 35mm 35mm 75mm 100mm 135mm	35mm 35mm 57mm 65mm Maci 50mm 58mm 55mm 100mm 35mm 100mm 135mm	47mm 50mm 77mm	58mm 65mm 107mm 100mm 80mm 105mm 135mm 50mm 100mm	75mm 125mm 85mm 100mm 137mm 135mm 152mm 100mm 135mm 200mm 400mm 200mm 300mm 80mm 105mm 135mm	135mm
Zeiss Macro  Sony Venice 5.7K 16:9 Sony Venice 2 8.2K 17:9  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron		19.00 mm ( 38 18.00 mm ( 38 18.00 mm ( 38 18mm 21mm 27mm 27mm 24mm 20mm 24mm 35mm 20mm 18mm 50mm 50mm 50mm	3.69 mm Ø) 3.56 mm Ø) 21mm 25mm 37mm 32mm 28mm 24mm 24mm 25mm 50mm 24mm 25mm 50mm 75mm	25mm 29mm 47mm 40mm 35mm 35mm 35mm 85mm 28mm 35mm	35mm 35mm 57mm 65mm Maci 50mm 58mm 55mm 100mm 35mm 50mm	5674 x 319 8192 x 433 47mm 50mm 77mm 75mm 60mm 85mm 85mm 40mm 85mm		75mm 125mm 85mm 100mm 137mm 135mm 152mm 100mm 135mm 200mm 400mm 200mm 300mm 80mm 105mm 135mm	135mm
Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro  Sony Venice 2 7.6K 16:9 Arri Mini LF 3.8K UHD 16:9 Red Gemini 5K 1.7:1  Arri Signature Zeiss Supreme Tribe7 Blackwing7	31.68mm > 30.72mm > 15mm	75mm 65mm Macro 100mm 40mm 65mm 85mm 50mm  18.00 mm ( 3) 17.82mm ( 3) 18.00mm ( 3)	100mm Mac 65mm 85mm 100mm 100mm 6.72 mm Ø ) 6.35mm Ø ) 5.61mm Ø )	85mm 135mm 25mm 29mm 47mm	35mm 35mm 57mm	7680 x 432 3840 x 210 5120 x 300 47mm 50mm 77mm	60 Pixels 00 Pixels 58mm 65mm 107mm	75mm 125mm 85mm 100mm 137mm	135mm
Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro	21mm 19mm 15mm 14mm 25mm 14mm 15mm 35mm 25mm 18mm 50mm 50mm 35mm 20mm 35mm 40mm	27mm 24mm 20mm 24mm 35mm 20mm 18mm 50mm 35mm 21mm 65mm 65mm Macro 50mm 24mm 50mm 50mm 25mm	100mm 28mm 65mm 100mm 100mm	40mm 35mm 35mm 35mm 85mm 28mm 35mm 75mm 29mm 100mm	65mm Maci 50mm 58mm 55mm 100mm 35mm 100mm 35mm 135mm	60mm 85mm 85mm 40mm 85mm	100mm 80mm 105mm 135mm 50mm 100mm	135mm 152mm 100mm 135mm 200mm 400mm 200mm 300mm  80mm 105mm 135mm  75mm 100mm	135mm 135mm
Red Dragon 6K Arri Alexa 35 4.6K Open Gate Red Helium 8K Sony FX9 FF Crop 5K 17:9 Arri Mini Open Gate  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds	30.70mm > 27.99mm > 29.90mm > 29.73mm > 29.73m	16.20mm ( 34 15.80mm ( 34 19.22mm ( 35 15.77mm ( 35 15.66mm ( 35 18.13mm ( 35 18mm 21mm 27mm 27mm 24mm 20mm 24mm 35mm 20mm 18mm 50mm	4.50mm Ø ) 3.96mm Ø ) 3.80mm Ø ) 3.55mm Ø )	25mm 29mm 47mm 40mm 35mm 35mm 35mm 28mm 28mm 35mm	35mm 35mm 57mm 65mm Maci 50mm 58mm 55mm 100mm 35mm 50mm	6144 × 324 6144 × 314 4608 x 316 8192 × 434 5008 x 264 3414 x 219 47mm 50mm 77mm 75mm 60mm 85mm 85mm 85mm	60 Pixels 64 Pixels 20 Pixels 40 Pixels	75mm 125mm 85mm 100mm 137mm 135mm 152mm 100mm 135mm 200mm 400mm 200mm 300mm 80mm 105mm 135mm	135mm
Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro  Red Monstro 6KHD Canon C700 S35 Arri Alexa 35 4.6K 16:9  Arri Signature Zeiss Supreme	28.90mm x	35mm 18mm 65mm 65mm Macro 35mm 24mm 35mm 85mm 50mm <b>16.20mm (33 15.20mm (32 18mm</b> 21mm	50mm 28mm 50mm 100mm 100mm 3.00mm Ø)	75mm 25mm 100mm 100mm 32mm 65mm 135mm	100mm 29mm 135mm 100mm Ma 40mm 85mm	5760 x 324 4096 x 210		50mm 75mm  85mm 100mm  75mm 125mm 85mm 100mm	100mm 135mm  135mm
Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro	20.7mm 21mm 19mm 15mm 14mm 25mm 14mm 35mm 25mm 15mm 25mm 15mm 25mm 16mm 18mm 16mm 18mm 10mm 10mm 10mm	27mm 27mm 24mm 20mm 24mm 35mm 20mm 18mm 50mm 35mm 18mm 25mm 25mm 25mm 25mm 20mm 25mm 20mm	37mm 32mm 28mm 24mm 28mm 50mm 24mm 25mm 85mm 50mm 21mm 40mm 40mm 35mm 24mm 35mm 100mm 100mm	47mm 40mm 35mm 35mm 35mm 85mm 28mm 35mm 75mm 25mm 50mm 50mm 50mm 50mm 135mm	57mm 65mm Macri 50mm 58mm 55mm 100mm 35mm 50mm  100mm 29mm 65mm 65mm Macri 100mm 32mm 65mm	77mm ro 75mm 60mm 85mm 85mm 40mm 85mm 35mm	107mm 100mm 80mm 105mm 135mm 50mm 100mm 100mm	137mm 135mm 152mm 100mm 135mm 200mm 400mm 200mm 300mm  80mm 105mm 135mm  50mm 75mm 135mm	135mm 100mm 135mm 100mm 135mm
Red Komodo 6K Arri Mini LF 3.2K S35 16:9 Arri Mini 4K UHD Phantom Flex 4K UHD Canon C300 MkIII 4K Canon C70 4K  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescone Leica R	26.40mm 2 26.40mm 2 25.90mm 2 26.20mm 2 15mm 18mm 20.7mm 21mm	14.25mm ( 30 14.85mm ( 29 14.85mm ( 29 14.60mm ( 29 13.80mm ( 29 13.80mm ( 29 18mm 21mm 27mm 27mm 24mm	9.99mm Ø) 9.99mm Ø) 9.70mm Ø) 9.61mm Ø) 9.61mm Ø) 21mm 25mm 37mm 32mm	25mm 29mm 47mm 40mm 35mm	35mm 35mm 57mm 65mm Maci		00 Pixels 00 Pixels 60 Pixels 60 Pixels 60 Pixels 58mm 65mm 107mm 100mm	75mm 125mm 85mm 100mm 137mm 135mm 152mm	135mm
Cinescope Leica R Zero Optik Nikkor/ AIS Zero Optik Canon FD Type SK - Canon Rangefinder Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro	19mm 15mm 14mm 25mm 14mm 15mm 35mm 25mm 15mm 18mm 18mm 18mm 18mm 10mm 18mm 14mm 32mm	24mm 20mm 24mm 35mm 20mm 18mm 50mm 35mm 18mm 25mm 25mm 25mm 25mm 24mm 40mm	28mm 24mm 28mm 50mm 24mm 25mm 85mm 50mm 21mm 32mm 40mm 35mm 14mm 35mm 30mm 30mm	35mm 35mm 35mm 85mm 28mm 35mm 75mm 25mm 40mm 50mm 50mm 16mm 50mm 100mm	50mm 58mm 55mm 100mm 35mm 50mm 100mm 29mm 50mm 65mm Maci 100mm 20mm 65mm 65mm	100mm Ma 24mm 85mm 100mm	28mm 135mm	100mm 135mm 200mm 400mm 200mm 300mm  80mm 105mm 135mm  50mm 75mm 100mm 135mm  32mm 40mm	135mm  100mm 135mm  50mm 65mm 85mm 100mm 135mm
Red Monstro 5K Arri Alexa 35 4K 16:9 Sony Venice S35 4K 17:9 Arri Mini HD 16:9 Sony Venice 2 S35 5.8K 17:9 Sony FX9 S35 4K 17:9 Black Magic BPMCC 6K  Arri Signature Zeiss Supreme Tribe7 Blackwing7 Cooke Speed Panchro/i Full Frame Cinescope Leica R Zero Optik Nikkor/ AIS	24.88mm 2 24.30mm 2 23.76mm 2 24.10mm 2 24.00mm 2 23.10mm 2 15mm 18mm 20.7mm 21mm 19mm 15mm	13.50mm ( 29 14.00mm ( 29 12.80mm ( 29 13.37mm ( 29 12.70mm ( 29 13.37mm ( 29 14.37mm ( 29 15.37mm ( 29 16.37mm ( 29 16.37mm ( 29 17.37mm ( 29 18.37mm ( 29 18	3.55mm Ø) 7.46mm Ø) 7.26mm Ø) 7.24mm Ø) 7.15 mm Ø) 6.50 mm Ø) 21mm 25mm 37mm 32mm 28mm 24mm	25mm 29mm 47mm 40mm 35mm 35mm	35mm 35mm 57mm 65mm Maci 50mm 58mm	60mm 85mm	04 Pixels 60 Pixels 80 Pixels 56 Pixels 60 Pixels 56 Pixels 58mm 65mm 107mm 100mm 80mm 105mm	75mm 125mm 85mm 100mm 137mm 135mm 152mm 100mm 135mm 200mm 400mm	135mm
Zero Optik Canon FD Canon Type SK Sigma Cine HS Zeiss CP.3 XD Zeiss CP.2 Superspeeds Schneider Xenon EF/ PL Leica Summicron Cooke S/4i Cooke Speed Panchro Classic Zeiss Master Prime Zeiss Ultraprime Zeiss Superspeed Zeiss Standard Zeiss Macro	14mm 25mm 14mm 15mm 35mm 25mm 15mm 15mm 18mm 18mm 18mm 18mm 14mm 32mm	24mm 35mm 20mm 18mm 50mm 35mm 18mm 18mm 25mm 25mm 12mm 25mm 16mm 40mm	28mm 50mm 24mm 25mm 85mm 50mm 21mm 25mm 32mm 35mm 14mm 35mm 24mm 50mm	35mm 85mm 28mm 35mm 75mm 25mm 32mm 40mm 50mm 16mm 50mm 32mm 100mm	55mm 100mm 35mm 50mm 100mm 29mm 40mm 50mm 100mm 20mm 65mm 50mm	85mm  40mm 85mm  35mm 50mm 65mm Mac 100mm Ma 24mm 85mm 85mm	135mm 50mm 100mm 40mm 65mm 75mm	200mm 300mm  80mm 105mm 135mm  50mm 75mm 75mm 100mm 100mm  32mm 40mm  135mm	135mm  100mm 135mm  135mm  50mm 65mm 85mm 100mm 135mm