

TECHSPEC[®]

Doppelkonvexe Linse aus UV-Quarzglas, 12 mm D. x 20 mm eff. BW, NIR-II-beschichtet



UV Fused Silica Double-Convex (DCX) Lenses



Produkt **#22-185** **5 In Stock**

[Andere Beschichtungen](#)

-

1

+

€151⁰⁰

+ WARENKORB

Mengenrabatte	
Stk. 1-5	€151,00 stückpreis
Stk. 6-25	€121,00 stückpreis
Stk. 26-49	€114,00 stückpreis
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Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

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Produktdetails	
Double-Convex Lens	Typ:

Physikalische und mechanische Eigenschaften

12.00 +0.0/-0.025	Durchmesser (mm):
<1	Zentrierung (Bogenminuten):
Protective as needed	Fase:
4.37 ±0.05	Mittendicke CT (mm):
2.27	Randdicke ET (mm):
11.00	Freie Apertur CA (mm):

Optische Eigenschaften

18.44	Hintere Brennweite BFL (mm):
20.00	Effektive Brennweite EFL (mm):
NIR II (750-1550nm)	Beschichtung:
R _{abs} ≤1.5% @ 750 - 800nm R _{abs} ≤1.0% @ 800 - 1550nm R _{avg} ≤0.7% @ 750 - 1550nm	Beschichtungsspezifikation:
Fused Silica (Corning 7980)	Substrat: ☐
40-20	Oberflächenqualität:
1.5λ	Power (P-V) @ 632,8 nm:
λ/4	Unregelmäßigkeit (P-V) @ 632,8 nm:
17.63	Radius R ₁ =R ₂ (mm):
1.67	Blende:
587.6	Designwellenlänge Brennweite (nm):
±1	Toleranz Brennweite (%):
0.30	Numerische Apertur NA:
750 - 1550	Wellenlängenbereich (nm):
8 J/cm² @ 1064nm, 10ns	Zerstörschwelle, Referenz: ☐

Konformität mit Standards

Konform	RoHS 2015:
Anzeigen	Konformitätszertifikat:
Konform	Reach 235:

Produktdetails

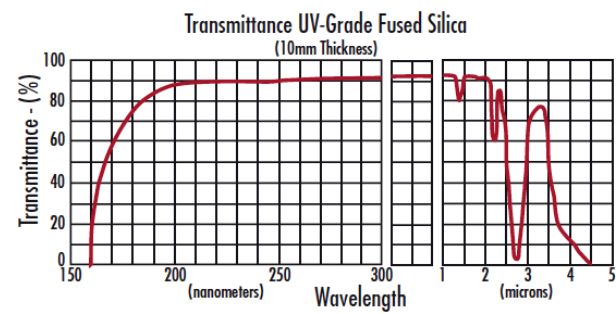
• Ideal für die Bildgebung

• Mnimieren Aberrationen wie sphärische Aberration oder Koma

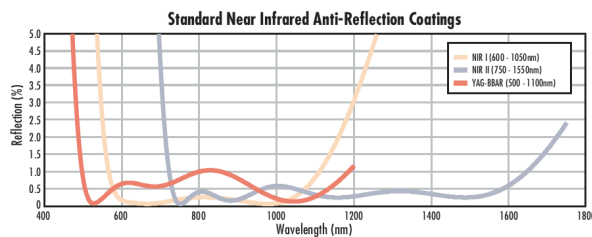
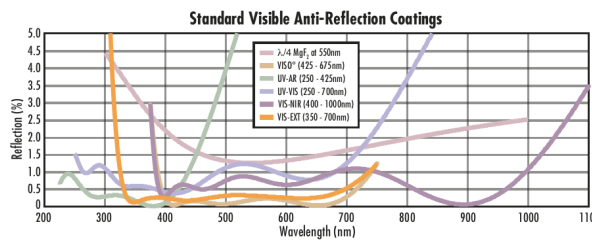
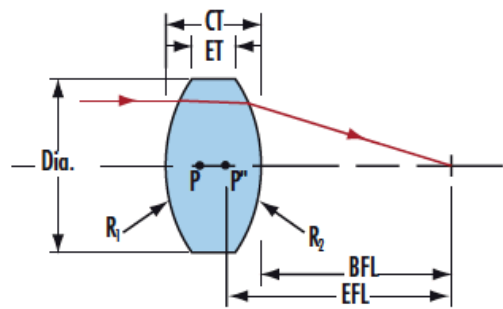
• Präzises Substrat aus Quarzglas

Die TECHSPEC® doppelkonvexen Linsen (DCX-Linsen) aus UV-Quarzglas, auch bikonvexe Linsen genannt, haben zwei positive, symmetrische Oberflächen mit gleichem Krümmungsradius auf beiden Seiten. Die Linsen werden generell für Bildgebungen mit endlichem Abstand und Konjugiertenverhältnis (Verhältnis zwischen Objekt- und Bildweite) zwischen 0,2 und 5 empfohlen. Bei einem Konjugiertenverhältnis von 1 sind Aberrationen wie sphärische Aberration, chromatische Aberration, Koma und Verzeichnung aufgrund des symmetrischen Linsendesigns minimiert oder sogar ganz eliminiert.

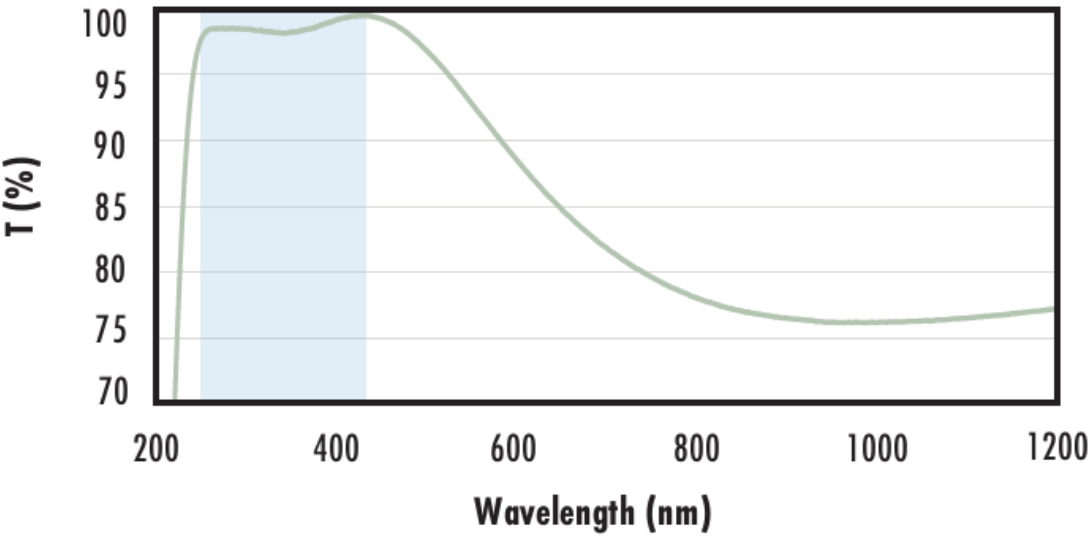
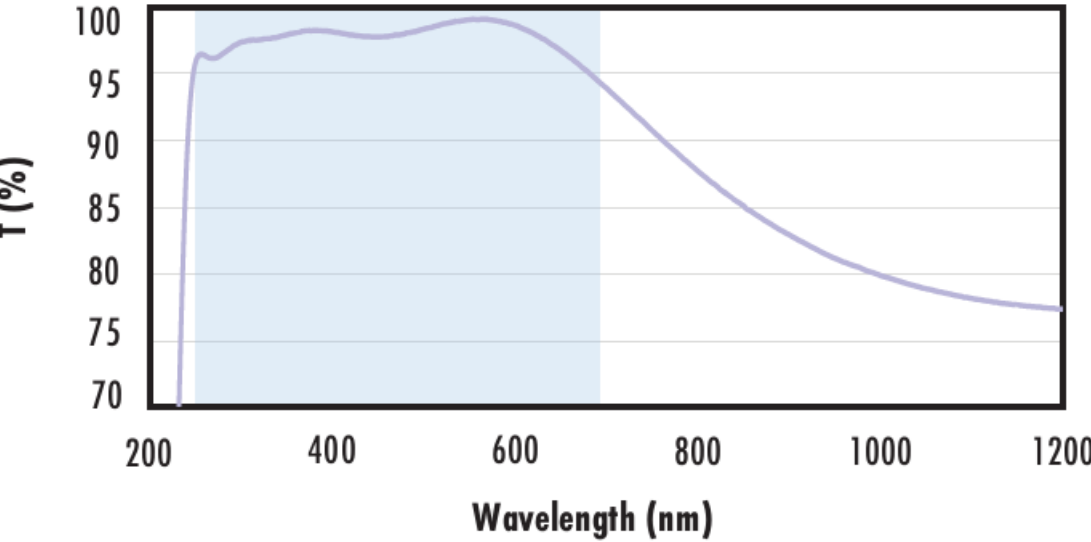
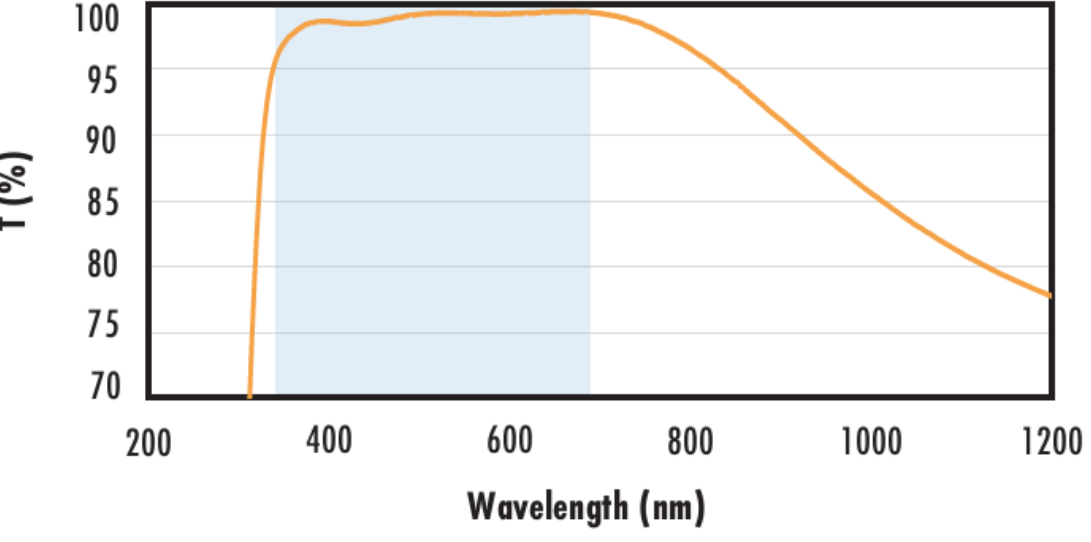
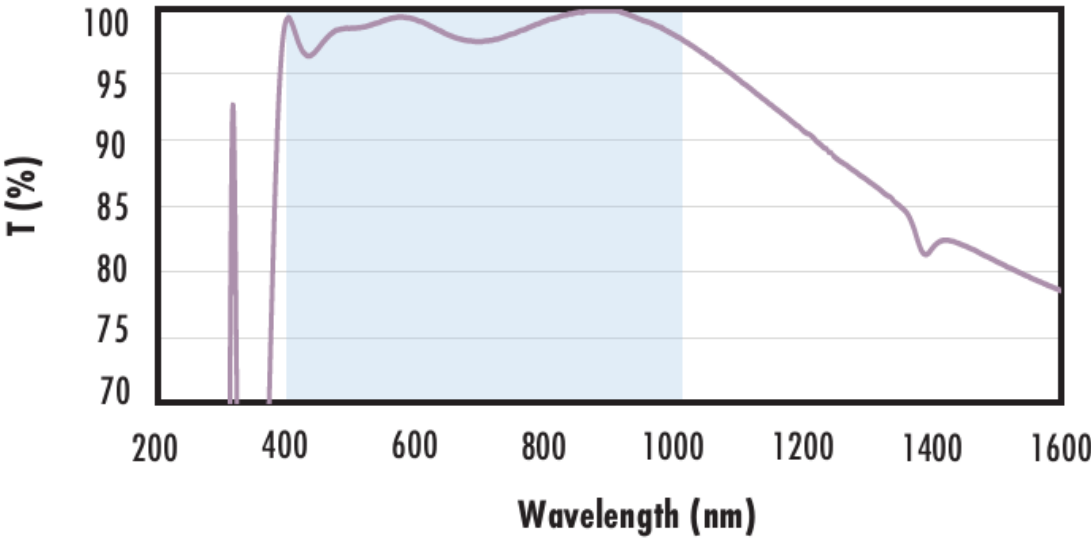
Technische Informationen

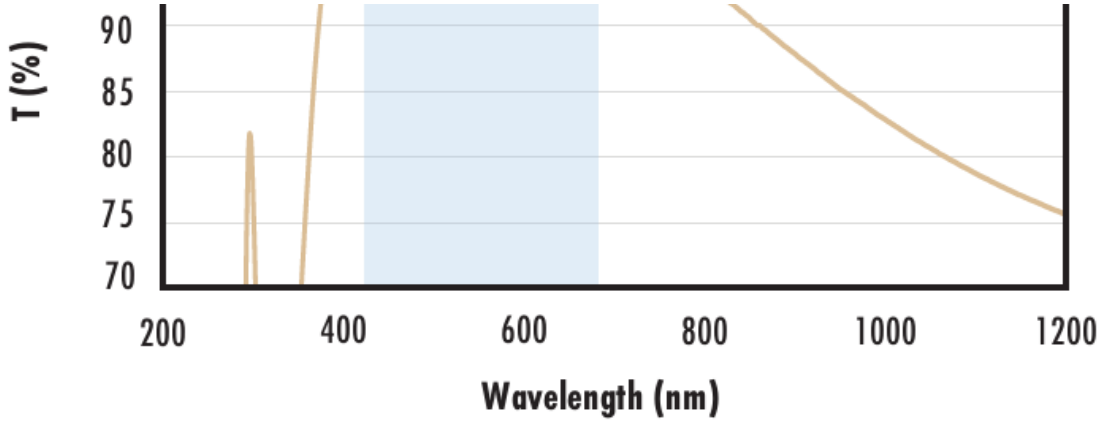
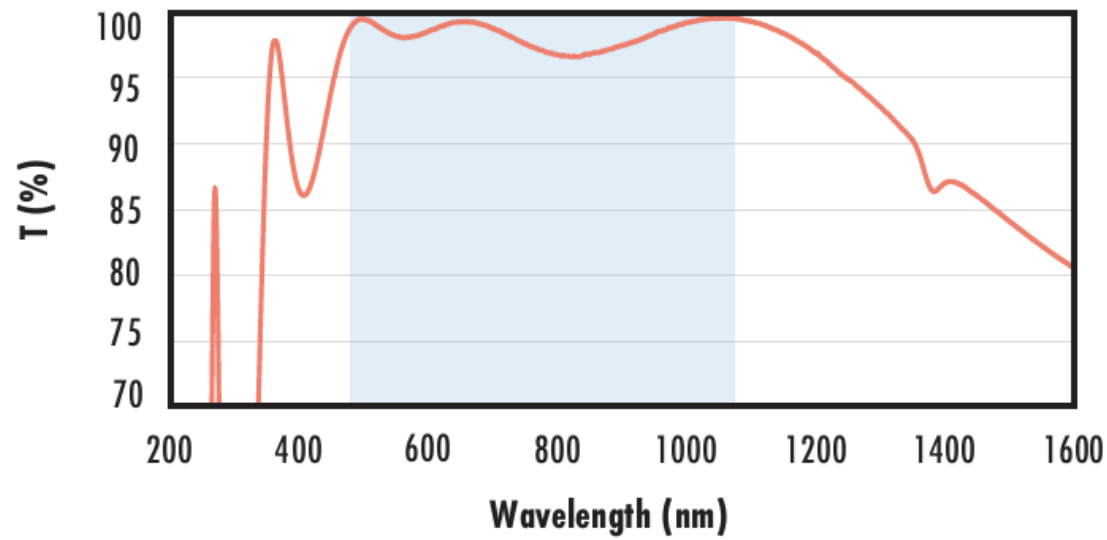
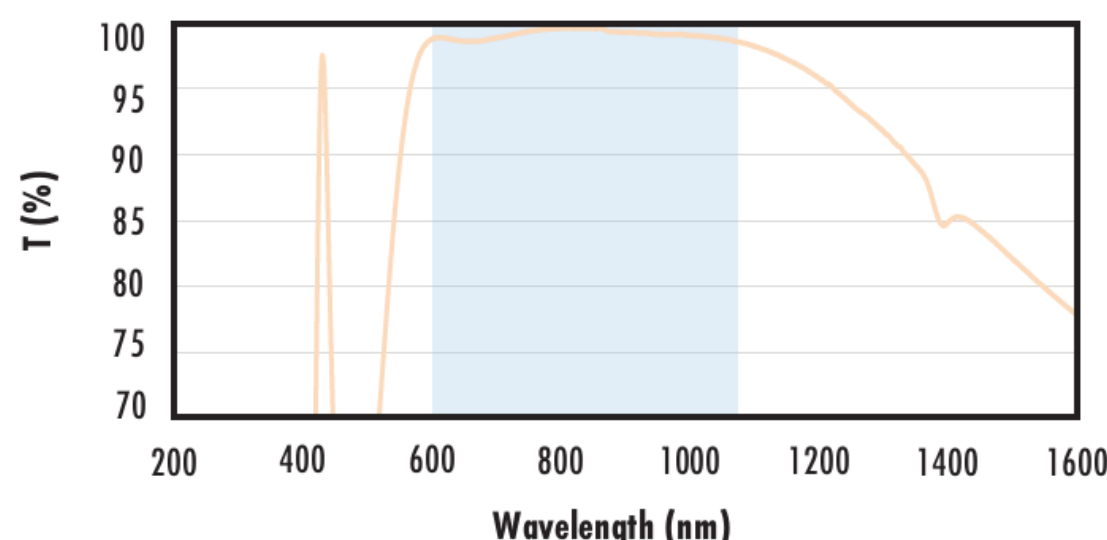
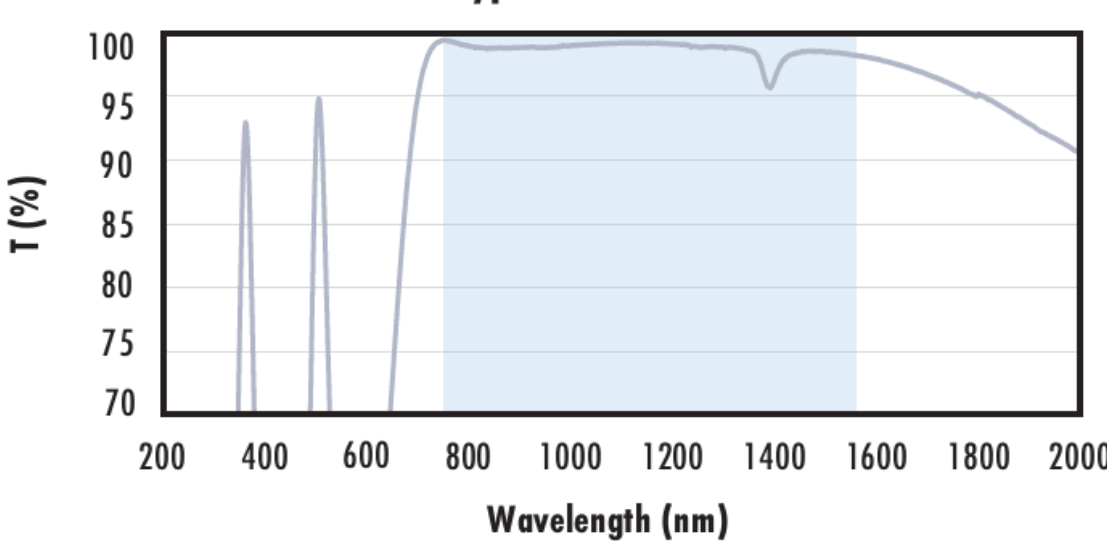


UV FS Transmission Curve



FUSED SILICA	
Uncoated Fused Silica Typical Transmission T (%) 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 Wavelength (nm)	Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra. Click Here to Download Data
Fused Silica with MgF₂ Coating Typical Transmission T (%) 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 Wavelength (nm)	Typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: R_{avg} ≤ 1.75% @ 400 - 700nm (N-BK7) Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with UV-AR Coating Typical Transmission	

	Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 1.0\%$ @ 250 - 425nm $R_{avg} \leq 0.75\%$ @ 250 - 425nm $R_{avg} \leq 0.5\%$ @ 370 - 420nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with UV-VIS Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 1.0\%$ @ 350 - 450nm $R_{avg} \leq 1.5\%$ @ 250 - 700nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS-EXT Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.5\%$ @ 350 - 700nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS-NIR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\%$ @ 880nm $R_{avg} \leq 1.25\%$ @ 400 - 870nm $R_{avg} \leq 1.25\%$ @ 890 - 1000nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS 0° Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

	The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with YAG-BBAR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\% @ 532\text{nm}$ $R_{abs} \leq 0.25\% @ 1064\text{nm}$ $R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with NIR I Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with NIR II Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 1.5\% @ 750 - 800\text{nm}$ $R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}$ $R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data

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