

Installation instructions

Protective films (optional accessories)
for touch/display devices in the “**notion.ABC**” series

Anti-glare protective film

Item No.:	Description	Series
778-90249	notion 10.1	notion.F
778-90250	notion 10.1	notion.C / notion.H
778-90341	notion 12.1	notion.S
778-90251	notion 15.x	notion.D and D3 / notion.S
778-90248	notion 18.5	notion.A3 and A4 / notion.D and D3 / notion.S
778-90252	notion 21.5	notion.D and D3 / notion.S
778-90253	notion 24	notion.D and D3

Hybrid glass (clear)

Item No.:	Description	Series
778-90211	notion 10.1	notion.F
778-90210	notion 10.1	notion.C / notion.H
778-90340	notion 12.1	notion.S
778-90209	notion 15.x	notion.D and D3 / notion.S
778-90208	notion 18.5	notion.A and A3 / notion.D and D3 / notion.S
778-90073	notion 21.5	notion.D and D3 / notion.S
778-90237	notion 24	notion.D and D3

Table of contents

TABLE OF CONTENTS.....	2
1. ABOUT THIS GUIDE.....	3
1.1. Copyright and Disclaimer.....	3
1.2. Release.....	3
1.3. Change log.....	3
1.4. General information.....	3
1.4.1 Target audience.....	3
1.4.2 Glossary.....	3
2. SAFETY INSTRUCTIONS.....	4
2.1. Classification of notices.....	4
2.2. Warning notices.....	4
3. INSTALLATION INSTRUCTIONS.....	5
4. TECHNICAL DATA: ANTI-GLARE PROTECTIVE FILM.....	7
Layer structure.....	7
5. TECHNICAL DATA: HYBRID GLASS (CLEAR).....	8
Layer structure.....	8

1. About these instructions

1.1. Copyright and disclaimer

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1.2. Approval

Purpose of the instructions		Quality improvement, in accordance with the company's guiding principles	
Author	Date of creation	Stefan Schmitt	1 October 2024
Approved by	Approved on	Stefan Schmitt	1 October 2024
Approved by	Approved on	Stefan Schmitt	14 April 2026
Document number		TRS-DOC-001893v02	

1.3. Revision Index

This page of the document shows the current version number, along with the corresponding date and author. Any drawings included in the appendix are provided with their own revision index.

Version	Change	Reason for change	Date	Author
00	Created	Reason	1 October 2024	SCS
01	Item number Protective film changed	Quality improvement	18 February 2025	KIJ
02	Item number changed and layout, footer, address line, DUNS number, email	Update Quality improvement	08 April 2026	GOES

1.4. General

Please read these instructions carefully before use and keep them for future reference. After installation, give the instructions to the user and, in the event of resale, pass them on with the product.

1.4.1 Target audience

These instructions are intended for persons who commission, configure, operate and maintain a product.

1.4.2 Glossary

The table (Table 1) lists terms and provides brief introductory explanations. Some terms are described in detail in the "System Overview" chapter.

Term	Explanation
User	Users are individuals who have been created in the system.

Table 1 Glossary

2. Safety instructions

The basic safety instructions are provided at the beginning of the manual. The “Safety Instructions” chapter warns of fundamental hazards that may arise during various stages of product use and which must always be observed by the user.

2.1. Classification of instructions

This operating manual contains instructions that you must observe for your own personal safety and to prevent damage to property. A distinction is made between basic safety instructions and warnings.

2.2. Warning notices

Warnings are placed within the documents at specific points of danger. They appear immediately before the action that poses a risk. The warnings are highlighted by a warning triangle and are presented as follows, depending on the level of risk:




Warning symbol	Meaning
 DANGER	DANGER indicates an immediately dangerous situation that will result in death or serious injury if not avoided.
 WARNING	WARNING indicates a potentially dangerous situation that could result in death or serious injury if not avoided.
 CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
CAUTION	CAUTION indicates a situation that may result in property damage if not avoided.
NOTE	NOTE indicates general information.

Table 1: Type of safety instruction

3. Installation instructions

⚠ WARNING

Damage caused by electrical voltage.

Installation or removal whilst the unit is in operation may cause damage to the display electronics.

- ▶ Switch off the device before installation or removal.



ESD protection measures in accordance with DIN EN 61340-5-1 must be observed.

NOTE

It is essential that you observe the following instructions

- ▶ Clean the front glass of the touch/display unit. The front glass must be free of dust and grease.
- ▶ The film must only be fitted when dry.
- ▶ Ensure the environment is dust-free during installation.
- ▶ Use a plastic squeegee to smooth out any air bubbles.

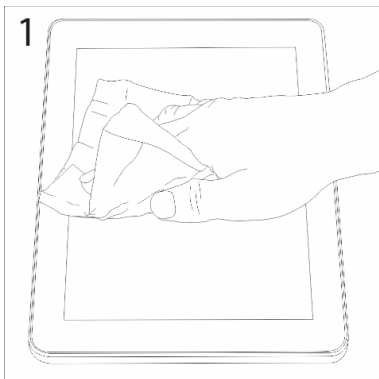


Figure 1:

Clean the front glass of the touch/display unit

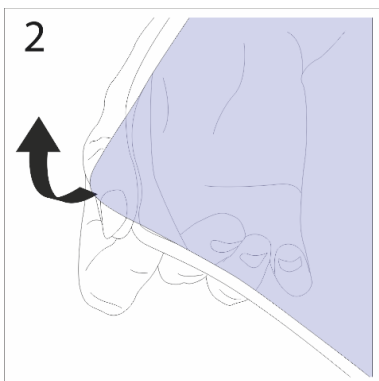


Figure 2:

Carefully peel the protective film off the transport or backing film

Images 3 to 5:

Carefully apply the protective film to the front glass of the touch/display unit.

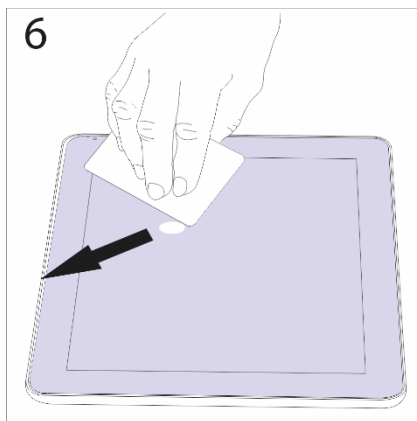
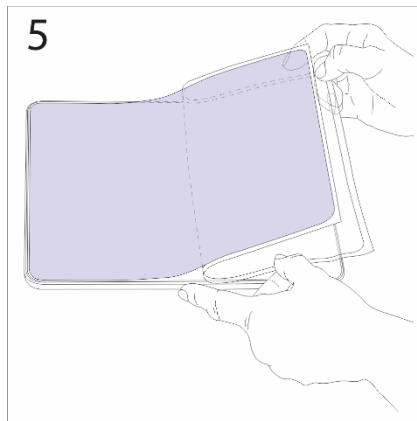
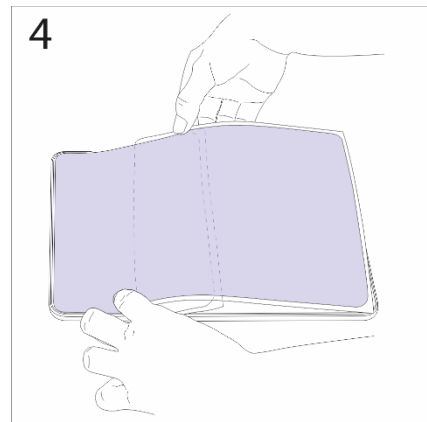
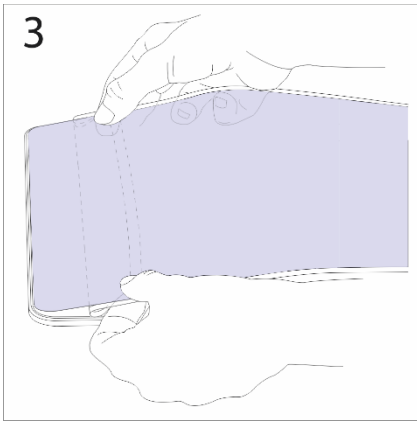


Figure 6:

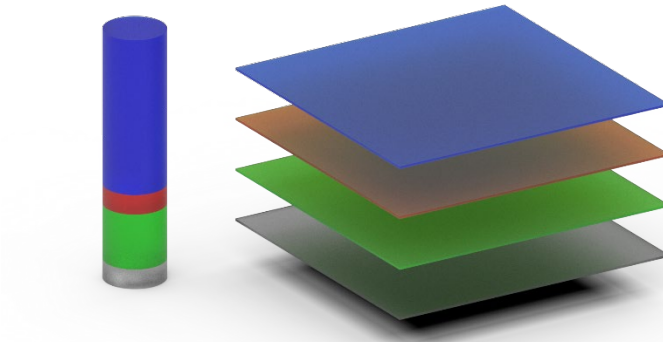
No print. Carefully remove any air bubbles with a soft squeegee or card.

Result:

The protective film has been applied completely and correctly. ✓

4. Technical data: Anti-glare protective film

Layer structure



130 μm PET base material

~1 μm thin intermediate layer

~50 μm adhesive silicone coating

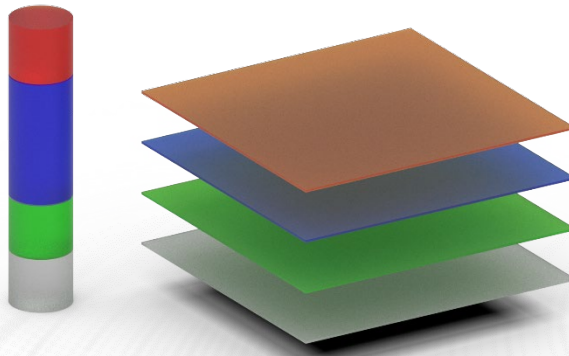
~1 μm thin transport protection film

Material properties	AGS: Anti-glare protective film
Material thickness	133.5 $\mu\text{m} \pm 5$
Anti-reflective coating	•
Extremely robust and durable polymer composite	•
Crystal-clear surface	
Excellent chemical resistance	•
Resistant to most alcohols (disinfectants)	•
Resistant to most fats, oils, acids and alkalis	•
Light transmission, 400–800 nm	> 93%
Thermal resistance (-35 °C to +110 °C)	•
UV absorption	15 %
Surface hardness	> 3 H
Dust and grease repellent (anti-fingerprint)	•
Self-adhesive and removable without leaving any residue	•
Extremely easy to fit without tools	•
Excellent adhesion to glass, many plastics and bare metals	•
A velvety, paper-like writing experience on displays	•
RoHS and REACH certified, free from plasticisers	•

Table 5-1: Material properties – anti-glare protective film

5. Technical data: Hybrid glass (clear)

Layer structure



50 µm transport protection film

~216 µm hybrid glass

~50 µm adhesive silicone coating

~50 µm carrier film

Material properties	Hybrid glass (clear)
Material type	Hybrid composite system consisting of special glass and plastic film
Surface hardness	9H, according to ISO 15184
Material colour	Highly transparent
Light transmission	94% ± 3%, according to ASTM D 1003
Haze	<2%, according to ASTM D 1003
Adhesive strength (adhesion to surfaces)	0.02 Ncm ⁻¹ ± 0.0078 Ncm ⁻¹
Thickness of hybrid glass + hard coating	216 ± 10 µm
Thickness of the silicone adhesive layer	50 ± 2 µm
Thickness of PET carrier film	50 ± 2 µm
Thermal resistance	50 ± 2 µm
Very good chemical resistance	-30 °C to +140 °C
Resistant to most alcohols (disinfectants), fats and oils ¹	Yes
Resistant to acids and alkalis	Yes
Dust and grease repellent (anti-fingerprint)	Yes
Self-adhesive and removable without leaving any residue	Yes
Very easy to fit without tools	Yes
Very high adhesion to glass, many plastics and bare metals	Yes
Provides an optimal writing experience on displays	Yes

Table 4-1: Material properties

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Page8 from 8

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