



### **ACCESSORIES**

# C-Mount Lenses User Guide

V1.1.4





#### **Quick links**

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# Read before use

# EN - English

# Safety

Before using the product, read these safety instructions. Observe the warnings at all times. Use the product only as stated in the Intended use on page 23.



#### **CAUTION**

#### Injuries by focused sunlight

If the sunlight is focused by the lens, eyes or skin can be injured.



#### **CAUTION**

#### Risk of cuts by sharp edges of lens mounts

The threads of the lens mount can have sharp edges.



#### **CAUTION**

#### Injury by a falling product

The falling product can cause injury.

#### Intended use

Intended use of Allied Vision product is the integration into vision systems by professionals. All Allied Vision product is sold in a B2B setting.



## DA - Dansk

#### Sikkerhed

Læs sikkerhedsanvisningerne, før produkt bruges. Overhold alle advarsler. Brug kun produkt som anført i Intended use på side 23.



#### **FORSIGTIG**

#### Skader ved fokuseret sollys

Hvis sollyset fokuseres af linsen, kan øjnene eller huden blive skadet.



#### **FORSIGTIG**

#### Fare for snitsår på linsemodulets skarpe kanter

Linsemodulets gevind kan have skarpe kanter.



#### **FORSIGTIG**

#### Kvæstelser, hvis produkt falder ned

Falder produkt ned, kan dette forårsage kvæstelser.

## Tilsigtet brug

Allied Vision produktets tilsigtede brug er en indbygning i et visionssystem, udført af fagfolk. Alle Allied Vision produkter sælges i B2B.



## DE - Deutsch

#### Sicherheit

Bevor Sie das Produkt benutzen, lesen Sie diese Sicherheitshinweise. Beachten Sie diese Hinweise immer. Verwenden Sie das Produkt nur wie beschrieben in Intended use auf Seite 23.



#### **VORSICHT**

#### Verletzungen durch fokussietes Sonnenlicht

Wird das Sonnenlicht durch das Objektiv gebündelt, können die Augen oder die Haut verletzt werden.



#### **VORSICHT**

#### Schnitte durch scharfkantige Objektivgewinde

Objektivgewinde können scharfe Kanten haben.



#### **VORSICHT**

#### Verletzung durch das fallende Produkt

Das fallende Produkt kann Verletzungen verursachen.

# Bestimmungsgemäßer Gebrauch

Allied Vision Produkte sind bestimmt für die Integration in Bildverarbeitungssysteme durch Fachpersonal. Alle Allied Vision Produkte werden in einer B2B-Umgebung verkauft.



# ES - Español

# Seguridad

Antes de utilizar el producto lea estas instrucciones de seguridad. Observe las advertencias en todo momento. Utilice el producto solo tal y como se estipula en el Intended use en la página 23.



#### **ATENCIÓN**

#### Lesiones por luz solar focalizada

Si la luz solar es enfocada por la lente, los ojos o la piel pueden resultar dañados.



#### **ATENCIÓN**

#### Riesgo de cortes debido a los bordes afilados del objetivo

Las roscas de los objetivos pueden tener bordes afilados.



#### **ATENCIÓN**

#### Lesiones en caso de que el producto se cae

Si el producto se cae puede provocar lesiones.

### Uso previsto

El uso previsto del producto Allied Vision es la integración en el sistema de visión por parte de profesionales. Todos los productos Allied Vision se venden dentro de una relación B2B.



## FI - Suomi

#### **Turvallisuus**

Lue nämä turvallisuusohjeet ennen tuotteen käyttöä. Noudata tuotetta joka hetki. Käytä tuotteen ainoastaan kohdassa Intended use sivulla 23 kuvatulla tavalla.



#### **HUOMIO**

#### Kohdennetun auringonvalon aiheuttamat vammat

Jos linssi keskittää auringonvalon, silmät tai iho voivat vahingoittua.



#### **HUOMIO**

Linssien kiinnikkeiden terävien reunojen aiheuttamien viiltovammojen vaara

Linssin kiinnikkeiden kierteiden reunat voivat olla teräviä.



#### **HUOMIO**

#### Putoavan tuotteen aiheuttamat vammat

Putoava tuote voi aiheuttaa vammoja.

## Käyttötarkoitus

Allied Vision-tuotteen käyttötarkoitus on integrointi kuvajärjestelmiin ammattilaisten toimesta. Kaikki Allied Vision-tuotteet myydään B2B-ympäristössä.



# FR - Français

#### Sécurité

Veuillez lire ces consignes de sécurité avant d'utiliser le produit. Respectez continuellement les avertissements. Utilisez le produit uniquement comme indiqué sous Intended use, page 23.



#### **ATTENTION**

#### Blessures dues à la lumière solaire focalisée

Si la lumière du soleil est focalisée par la lentille, les yeux ou la peau peuvent être blessés.



#### **ATTENTION**

#### Risque de coupures sur les bords tranchants des montures d'objectif

Les filetages des montures d'objectif peuvent présenter des bords tranchants.



#### **ATTENTION**

#### Blessures en cas de chute du produit

La chute de la produit peut entraîner des blessures.

# Utilisation prévue

L'utilisation prévue du produit Allied Vision est son intégration dans des systèmes de vision par le soin de professionnels. Tout produit Allied Vision est vendu dans un cadre B2B.



## HE - עברית

#### בטיחות

לפני השימוש במוצר, עליך לקרוא את הוראות הביטחון האלו. עליך לממש הוראות ביטחון אלו תמיד. השימוש במצלמה הוא רק לפי מה שכתוב ב"כוונת השימוש" (Intended use בעמוד 23).

#### זהירות

#### סכנת פציעה על ידי קרני השמש בנקודת המוקד

עם דרך העדשה מתרכזות קרני השמש, יכולה העין וגם העור להיפגע.



#### זהירות

#### סכנה להחתך מתבריג חד של העדשה

תבריג תושבת העדשה עלול להיות חד עד כדי פציעה.



#### זהירות

#### פציעה מנפילת המוצר

נפילת המוצר עלולה לגרום לפציעה.



#### שימוש מיועד

מוצרי AlliedVision מיועדים לשילוב במערכות ממוחשבת לעיבוד צילומים ע"י אנשי מקצוע. כל מוצרי AlliedVision נמכרים לשימוש בסביבת B2B.



# IT - Italiano

#### Sicurezza

Leggere queste istruzioni per la sicurezza prima di utilizzare il prodotto. Osservare sempre tutte le avvertenze. Utilizzare il prodotto come descritto alla sezione Intended use a pagina 23.



#### **ATTENZIONE**

#### Lesioni da luce solare concentrata

Se la luce solare viene focalizzata dalla lente, gli occhi o la pelle possono subire lesioni.



#### **ATTENZIONE**

#### Pericolo di tagliarsi sui bordi affilati degli attacchi della lente

I bordi della filettatura dell'attacco della lente possono essere affilati.



#### **ATTENZIONE**

#### Lesioni dovute alla caduta del prodotto

Il prodotto può causare delle lesioni.

### Uso previsto

Il prodotto Allied Vision è concepito per essere integrato in sistemi di monitoraggio in campo professionale. Tutti i prodotti Allied Vision sono venduti in uno scenario B2B.



# JA - 日本語

#### 安全性

本製品を使用する前に、この安全ガイドをお読みください。警告を必ず守ってください。必ず21ページのIntended use 23 ページに従って使用してください。



#### 注意

#### 太陽光の集光による傷害

太陽光がレンズで集光されると、目や皮膚を傷つける可能性があります。



#### 注意

#### レンズマウントの鋭利な端部で切り傷の危険性

レンズマウントのギザギザの部分が鋭利である可能性があります。



#### 注意

#### 製品の落下によるケガ

本製品が落下すると、けがをするおそれがあります。

### 用途

Allied Vision製品は、専門家が視覚装置に統合することを意図したものです。すべてのAllied Vision製品は、企業間取り引き用に販売されています。



# NL - Nederlands

# Veiligheid

Lees deze veiligheidsinstructies voordat u het product gebruikt. Neem deze waarschuwingen altijd in acht. Gebruik het product uitsluitend, zoals aangegeven in het Intended use op pagina 23.



#### **VOORZICHTIG**

#### Verwondingen door gericht zonlicht

Als het zonlicht door de lens wordt gefocusseerd, kunnen ogen of huid worden verwond.



#### **VOORZICHTIG**

#### Risico van snijwonden door scherpe randen van lensbevestigingen

Het schroefdraad van de lensbevestiging kan scherpe randen hebben.



#### **VOORZICHTIG**

#### Letsel door het vallende product

Het vallende product kan verwondingen veroorzaken.

## Beoogd gebruik

Het beoogde gebruik van het Allied Vision-product is de integratie in optische systemen door professionals. Alle Allied Vision-producten worden verkocht in de B2B-markt.



# NO - Norsk

### Sikkerhet

Les disse sikkerhetsinstruksene før du bruker produkt. Følg advarslene til en hver tid. Bruk kun produkt i samsvar med Intended use på side 23.



#### **FORSIKTIG**

#### Skader ved fokusert sollys

Hvis sollyset fokuseres av linsen, kan øyne eller hud bli skadet.



#### **FORSIKTIG**

#### Risiko for kutt fra skarpe kanter på linsefester

Sporene på linsefestet kan ha skarpe kanter.



#### **FORSIKTIG**

#### Skade ved det fallende produktet

Det fallende produktet kan forårsake skade.

### Tiltenkt bruk

Den tiltenkte bruken av Allied Vision-produktet er integrering i visjonssystemer av profesjonelle. Alle Allied Vision-produkter selges i en forretning til forretning-situasjon.



# SV - Svenska

#### Säkerhet

Läs igenom säkerhetsinstruktionerna innan du använder produkten. Var hela tiden särskilt uppmärksam på varningarna. Använd enbart produkten på det sätt som anges i Intended use på sida 23.



#### **VARNING**

#### Skador orsakade av fokuserat solljus

Om solljuset fokuseras av linsen kan ögonen eller huden skadas.



#### **VARNING**

#### Risk för skärsår från vassa kanter på objektivfattningar

Objektivets gängor kan ha vassa kanter.



#### **VARNING**

#### Risk för skador från fallande produkter

Fallande produkter kan förorsaka skador.

## Avsedd användning

Den avsedda användningen av Allied Vision-produkter är integrering i visionssystem av fackmän. Samtliga Allied Vision-produkter säljs i en B2B-miljö.



# ZH - 简体中文版

### 安全需知

在使用产品之前,请阅读这些安全说明。请务必遵守相关警告和 Intended use 于第 23 页.



#### 注意事项

#### 阳光集中照射造成的伤害

如果阳光被镜片聚焦, 眼睛或皮肤就会受伤。



#### 注意事项

#### 镜头接口的锐利边缘划伤风险

镜头接口螺纹边缘可能较为锐利。



#### 注意事项

#### 由坠落的产品造成的伤害

产品可能会坠落并造成伤害。

### 预期用途

Allied Vision 产品的预期用途是由专业人士整合到视觉系统中。所有 Allied Vision 的产品均通过 B2B 渠道销售。



# This document at a glance



#### Get an overview:

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#### Read this document carefully

Learn to use C-Mount lenses in the most safe and efficient way and avoid damage to cameras and lenses.

# Shipping contents

- C-Mount lens
- Protection caps for the front lens and the back lens.

# What else do you need?



#### **Technical information and ordering**

For information about Allied Vision cameras, see www.alliedvision.com/en/support. For C-Mount lenses in this user guide, please contact Allied Vision Sales at www.alliedvision.com/en/about-us/contact-us/contact-sales.



# Contact us

### Website, email

#### General

www.alliedvision.com/en/contact info@alliedvision.com

#### **Distribution partners**

www.alliedvision.com/en/avt-locations/avt-distributors

#### Support

www.alliedvision.com/en/support www.alliedvision.com/en/about-us/contact-us/technical-support-repair-/-rma

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# Document history and conventions



#### This chapter includes:

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# Document history

Version	Date	Remarks
V1.1.4	2024-Dec-09	Added diagrams for MTF (modulation transfer function) in Specifications on page 25.
V1.1.3	2024-Jul-15	Updated addresses in Contact us on page 17.
V1.1.2	2024-Feb-19	Corrected footnotes and title in specifications for C-35-F2.0-10MP-T2-3 on page 31.
V1.1.1	2023-Feb-14	<ul> <li>Added Hebrew contents in Read before use on page 2.</li> <li>Applied editorial changes.</li> </ul>
V1.1.0	2022-Aug-04	Added C-6-F2.8-6MP-T1-1.8 on page 26.
V1.0.0	2022-May-20	Initial version

Table 1: Document history

# Conventions used in this user guide

To give this manual an easily understood layout and to emphasize important information, the following typographical styles and symbols are used:

### Typographical styles

Style	Function
Emphasis	Highlighting important things
Web links and references	Links to webpages and internal cross references

Table 2: Typographical styles

# Symbols and notes



#### **CAUTION**

#### General safety message

Precautions are described



#### **CAUTION**

#### Injury by falling cameras or lenses

Precautions are described





#### **CAUTION**

#### Risk of cuts by sharp edges of lens mounts

Precautions are described



#### **NOTICE**

#### Material damage

Precautions are described.



#### **Additional information**

Web link or reference to an external source with more information is shown.

# Lenses naming

C-Mount lenses are named to identify model properties.

For example, **C-8-F2.4-10MP-T2-3** is composed of:

	С	8	F2.4	10MP	T2-3
Content element	Lens mount	Focal length	Aperture (f/#)	Supported pixel resolution	Sensor size
Content meaning	C-Mount	8 mm	F/2.4	10 MP*	Type 2/3
*Megapixels					

Table 3: Lenses naming



# Intended use and safety

8

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# Intended use

Allied Vision's objective is the development, design, production, maintenance, servicing and distribution of digital cameras and components for image processing. We are offering standard products as well as customized solutions.

Intended use of Allied Vision product is the integration into Vision systems by professionals. All Allied Vision product is sold in a B2B setting.

Allied Vision isn't a legal manufacturer of medical product. Instead, Allied Vision cameras and accessories may be used as components for medical product after design-in by the medical device manufacturer and based on a quality assurance agreement (QAA) between Allied Vision (supplier) and medical device manufacturer (customer). Allied Vision's duties in that respect are defined by ISO 13485, clause 7.2 (customer-related processes, equivalent to ISO 9001, clause 8.2).

# Your safety

Threads of the lens and the camera lens mount have sharp edges. Be careful these edges do not cut your skin when handling lenses and lens mounts.

Prevent cameras and lenses from falling:

Ensure proper mounting of cameras and lenses, especially for dynamic applications.

# **Product safety**

To prevent material damage, read the following to understand risks in using C-Mount lenses.

### Maximum protrusion

If the lens exceeds maximum protrusion, camera, lens, or electronics can be damaged. Do the following to avoid damage:

- Before you mount a lens to a camera, see your camera's specifications for maximum protrusion.
- Use only lenses with a protrusion supported by the corresponding camera.

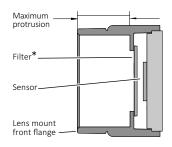


Figure 1: Maximum protrusion



#### Sensor

Sensors are sensitive to excessive radiation: focused sunlight, lasers, and X-rays can damage the sensor. Dirt and scratches can damage the sensor, too.

Protect the sensor from dirt, because dirt becomes more visible the closer it gets to the sensor. In addition, keep the back lens clean. Hold the camera with the lens mount facing the ground to keep dirt out of the lens mount



Figure 2: Protecting the sensor from dirt

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# Specifications



This chapter includes technical data for two lens series:

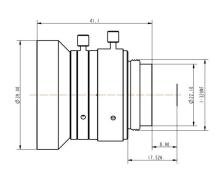
Lenses for sensors up to	6 MP	26
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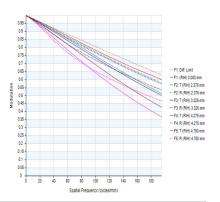


# Lenses for sensors up to 6 MP

# C-6-F2.8-6MP-T1-1.8







Feature	Value
Product code	18497
Camera mount	C-Mount
Sensor size	Type 1/1.8
Pixel size	2.4 μm
Focal length	6 mm
Aperture (f/#)	F2.8 to F16
Focus range <sup>1</sup>	0.1 m to ∞
Supported pixel resolution	6 MP
Angle of view (diagonal) <sup>2</sup>	75.0° with Type 1/1.8
Flange focal distance	17.526 mm
Image circle	ø 9.5 mm
Relative illumination	62%
TV distortion <sup>3</sup>	+0.81%
CRA (chief ray angle)	max. 13.4°
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%
Structure	9 glass elements
Dimensions (diameter × length)	39.0 mm × 32.5 mm
Filter thread	M37.5 × P0.5
Mass	66 g
100	

<sup>1</sup>Measured from the object to the front lens surface

Table 4: C-6-F2.8-6MP-T1-1.8 specifications

 $<sup>^{2}</sup>$ Working distance = ∞

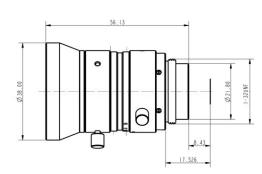
 $<sup>^3</sup>$ Working distance = 0.1 m to  $\infty$ 

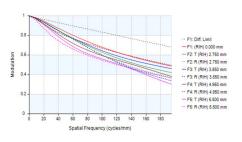


# Lenses for sensors up to 10 MP

### C-8-F2.4-10MP-T2-3







Value
17870
C-Mount
Type 2/3
2.4 μm
8 mm
F2.4 to F16
0.1 m to <b>∞</b>
10 MP
68.3° with Type 2/3
17.526 mm
ø 11 mm
64%
+0.73%
max. 15.5°
≥85%
11 glass elements
38 mm × 47 mm
M37 × P0.5
103 g

<sup>&</sup>lt;sup>1</sup>Measured from the object to the front lens surface

Table 5: C-8-F2.4-10MP-T2-3 specifications

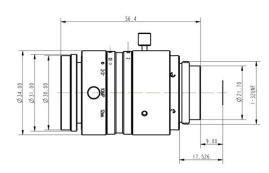
<sup>&</sup>lt;sup>2</sup>Working distance =  $\infty$ 

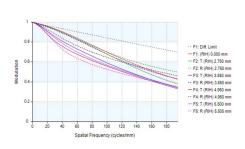
 $<sup>^3</sup>$ Working distance = 0.1 m to ∞



# C-12-F2.0-10MP-T2-3







Feature	Value
Product code	17871
Camera mount	C-Mount
Sensor size	Type 2/3
Pixel size	2.4 μm
Focal length	12 mm
Aperture (f/#)	F2.0 to F16
Focus range <sup>1</sup>	0.1 m to <b>∞</b>
Supported pixel resolution	10 MP
Angle of view (diagonal) <sup>2</sup>	48° with Type 2/3
Flange focal distance	17.526 mm
Image circle	ø 11 mm
Relative illumination	67%
TV distortion <sup>3</sup>	+0.19%
CRA (chief ray angle)	max. 8.8°
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%
Structure	11 glass elements
Dimensions (diameter × length)	34 mm × 47.9 mm
Filter thread	M28 × P0.5
Mass	105 g
10 de accome diference the colois at the three forest lane accomp	

<sup>&</sup>lt;sup>1</sup>Measured from the object to the front lens surface

Table 6: C-12-F2.0-10MP-T2-3 specifications

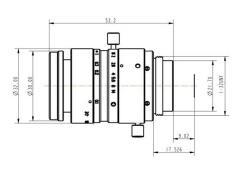
 $<sup>^{2}</sup>$ Working distance = ∞

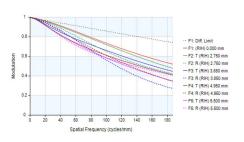
 $<sup>^3</sup>$ Working distance = 0.1 m to  $\infty$ 



# C-16-F1.8-10MP-T2-3







Foothure	Value	
Feature Product code	17872	
Camera mount	C-Mount	
Sensor size	Type 2/3	
Pixel size	2.4 μm	
Focal length	16 mm	
Aperture (f/#)	F1.8 to F14	
Focus range <sup>1</sup>	0.1 m to ∞	
Supported pixel resolution	10 MP	
Angle of view (diagonal) <sup>2</sup>	36.8° with Type 2/3	
Flange focal distance	17.526 mm	
Image circle	ø 11 mm	
Relative illumination	73%	
TV distortion <sup>3</sup>	+0.13%	
CRA (chief ray angle)	max. 10°	
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%	
Structure	11 glass elements	
Dimensions (diameter × length)	32 mm × 44.7 mm	
Filter thread	M27 × P0.5	
Mass	90 g	
<sup>1</sup> Measured from the object to the front lens surface		

<sup>&</sup>lt;sup>2</sup>Working distance =  $\infty$ 

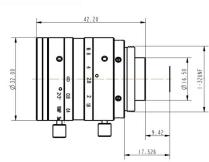
Table 7: C-16-F1.8-10MP-T2-3 specifications

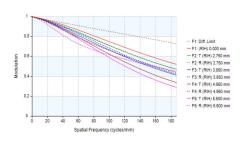
 $<sup>^3</sup>$ Working distance = 0.1 m to  $\infty$ 



# C-25-F1.8-10MP-T2-3







Value
17873
C-Mount
Type 2/3
2.4 μm
25 mm
F1.8 to F16
0.15 m to ∞
10 MP
22.8° with Type 2/3
17.526 mm
ø 11 mm
84%
+0.01%
max. 13.5°
≥85%
8 glass elements
32 mm × 33.9 mm
M27 × P0.5
64 g

<sup>&</sup>lt;sup>1</sup>Measured from the object to the front lens surface

Table 8: C-25-F1.8-10MP-T2-3 specifications

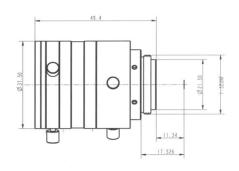
 $<sup>^{2}</sup>$ Working distance = ∞

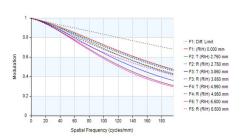
 $<sup>^3</sup>$ Working distance = 0.15 m to  $\infty$ 



# C-35-F2.0-10MP-T2-3







Feature	Value
Product code	17874
Camera mount	C-Mount
Sensor size	Type 2/3
Pixel size	2.4 μm
Focal length	35 mm
Aperture (f/#)	F2.0 to F16
Focus range <sup>1</sup>	0.2 m to <b>∞</b>
Supported pixel resolution	10 MP
Angle of view (diagonal) <sup>2</sup>	16° with Type 2/3
Flange focal distance	17.526 mm
Image circle	ø 11 mm
Relative illumination	87%
TV distortion <sup>3</sup>	+0.04%
CRA (chief ray angle)	max. 9.37°
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%
Structure	8 glass elements
Dimensions (diameter × length)	37.5 mm × 43.2 mm
Filter thread	M30.5 × P0.5
Mass	98 g
<sup>1</sup> Measured from the object to the front lens surface	

<sup>&</sup>lt;sup>2</sup>Working distance =  $\infty$ 

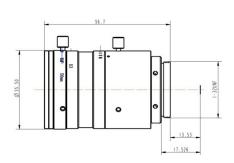
Table 9: C-35-F2.0-10MP-T2-3 specifications

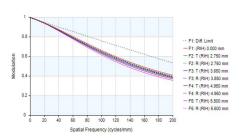
 $<sup>^3</sup>$ Working distance = 0.2 m to  $\infty$ 



# C-50-F2.8-10MP-T2-3







Feature	Value
Product code	17875
Camera mount	C-Mount
Sensor size	Type 2/3
Pixel size	$2.4\mu m$
Focal length	50 mm
Aperture (f/#)	F2.8 to F16
Focus range <sup>1</sup>	0.3 m to <b>∞</b>
Supported pixel resolution	10 MP
Angle of view (diagonal) <sup>2</sup>	10.8° with Type 2/3
Flange focal distance	17.526 mm
Image circle	ø 11 mm
Relative illumination	99%
TV distortion <sup>3</sup>	+0.01%
CRA (chief ray angle)	max. 4.4°
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%
Structure	8 glass elements
Dimensions (diameter × length)	35.5 mm × 52.7 mm
Filter thread	M30.5 × P0.5
Mass	93 g
<sup>1</sup> Measured from the object to the front lens surface	

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Table 10: C-50-F2.8-10MP-T2-3 specifications

<sup>&</sup>lt;sup>2</sup>Working distance =  $\infty$ 

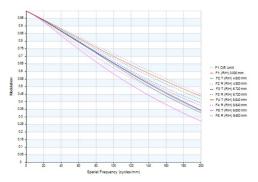
 $<sup>^3</sup>$ Working distance = 0.3 m to  $\infty$ 



# Lenses for sensors up to 25 MP

### C-12-F2.4-25MP-T1.2





Feature	Value
Product code	17865
Camera mount	C-Mount
Sensor size	Type 1.2
Pixel size	2.74 μm
Focal length	12 mm
Aperture (f/#)	F2.4 to F16
Focus range <sup>1</sup>	0.1 m to ∞
Supported pixel resolution	25 MP
Angle of view (diagonal) <sup>2</sup>	76.1° with Type 1.2
Flange focal distance	17.526 mm
Image circle	ø 19.3 mm
Relative illumination	81%
TV distortion <sup>3</sup>	+0.39%
CRA (chief ray angle)	max. 6°
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%
Structure	15 glass elements
Dimensions (diameter × length)	50 mm × 67mm
Filter thread	No filter thread
Mass	219 g

<sup>1</sup>Measured from the object to the front lens surface

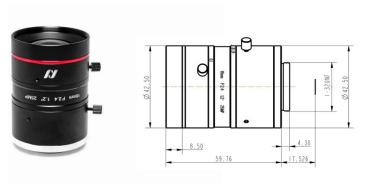
Table 11: C-12-F2.4-25MP-T1.2 specifications

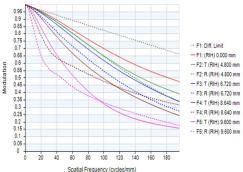
 $<sup>^{2}</sup>$ Working distance = ∞

 $<sup>^3</sup>$ Working distance = 0.1 m to ∞



# C-16-F2.4-25MP-T1.2





Feature	Value
Product code	17866
Camera mount	C-Mount
Sensor size	Type 1.2
Pixel size	2.74 μm
Focal length	16 mm
Aperture (f/#)	F2.4 to F16
Focus range <sup>1</sup>	0.1 m to ∞
Supported pixel resolution	25 MP
Angle of view (diagonal) <sup>2</sup>	61.4° with Type 1.2
Flange focal distance	17.526 mm
Image circle	ø 19.3 mm
Relative illumination	75%
TV distortion <sup>3</sup>	+0.07%
CRA (chief ray angle)	max. 6.5°
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%
Structure	13 glass elements
Dimensions (diameter × length)	42.5 mm × 60 mm
Filter thread	M40.5 × P0.5
Mass	190 g
1	

<sup>&</sup>lt;sup>1</sup>Measured from the object to the front lens surface

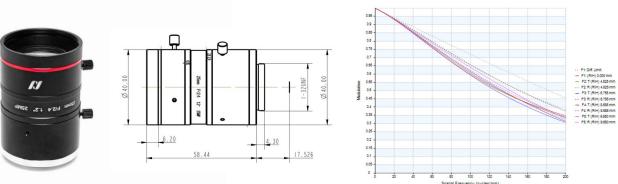
Table 12: C-16-F2.4-25MP-T1.2 specifications

 $<sup>^{2}</sup>$ Working distance = ∞

 $<sup>^3</sup>$ Working distance = 0.1 m to ∞



# C-25-F2.4-25MP-T1.2



	Spatial Frequency (cycles/mm)
Feature	Value
Product code	17867
Camera mount	C-Mount
Sensor size	Type 1.2
Pixel size	2.74 μm
Focal length	25 mm
Aperture (f/#)	F2.4 to F16
Focus range <sup>1</sup>	0.15 m to <b>∞</b>
Supported pixel resolution	25 MP
Angle of view (diagonal) <sup>2</sup>	41.2° with Type 1.2
Flange focal distance	17.526 mm
Image circle	ø 19.3 mm
Relative illumination	69%
TV distortion <sup>3</sup>	-0.11%
CRA (chief ray angle)	max. 6.5°
Spectral transmission [τ] (486 nm to 656 nm)	≥85%
Structure	12 glass elements
Dimensions (diameter × length)	40 mm × 58.5 mm
Filter thread	M37 × P0.5
Mass	162 g
<sup>1</sup> Measured from the object to the front lens surface	

 $<sup>^{2}</sup>$ Working distance = ∞

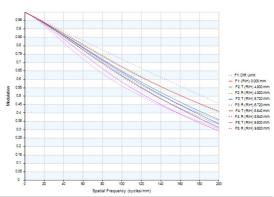
Table 13: C-25-F2.4-25MP-T1.2 specifications

 $<sup>^3</sup>$ Working distance = 0.15 m to  $\infty$ 



# C-35-F2.4-25MP-T1.2





Feature	Value
Product code	18375
Camera mount	C-Mount
Sensor size	Type 1.2
Pixel size	2.74 μm
Focal length	35 mm
Aperture (f/#)	F2.4 to F16
Focus range <sup>1</sup>	0.15 m to <b>∞</b>
Supported pixel resolution	25 MP
Angle of view (diagonal) <sup>2</sup>	29.3° with Type 1.2
Flange focal distance	17.526 mm
Image circle	ø 19.3 mm
Relative illumination	82%
TV distortion <sup>3</sup>	-0.07%
CRA (chief ray angle)	max. 6.5°
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%
Structure	11 glass elements
Dimensions (diameter × length)	42 mm × 59.3 mm
Filter thread	M40.5 × P0.5
Mass	174 g
1	

<sup>&</sup>lt;sup>1</sup>Measured from the object to the front lens surface

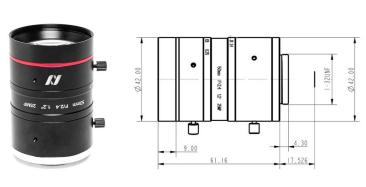
Table 14: C-35-F2.4-25MP-T1.2 specifications

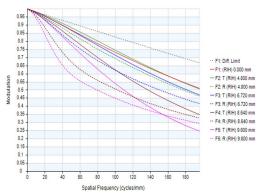
 $<sup>^{2}</sup>$ Working distance = ∞

 $<sup>^3</sup>$ Working distance = 0.15 m to  $\infty$ 



# C-50-F2.4-25MP-T1.2





	Spalar requency (cyclesmin)
Feature	Value
Product code	17869
Camera mount	C-Mount
Sensor size	Type 1.2
Pixel size	2.74 μm
Focal length	50 mm
Aperture (f/#)	F2.4 to F16
Focus range <sup>1</sup>	0.25 m to <b>∞</b>
Supported pixel resolution	25 MP
Angle of view (diagonal) <sup>2</sup>	20.5° with Type 1.2
Flange focal distance	17.526 mm
Image circle	ø 19.3 mm
Relative illumination	79%
TV distortion <sup>3</sup>	+0.06%
CRA (chief ray angle)	max. 6.9°
Spectral transmission [ $\tau$ ] (486 nm to 656 nm)	≥85%
Structure	11 glass elements
Dimensions (diameter × length)	42 mm × 34.1 mm
Filter thread	M40.5 × P0.5
Mass	179 g
1,, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	

<sup>&</sup>lt;sup>1</sup>Measured from the object to the front lens surface

Table 15: C-50-F2.4-25MP-T1.2 specifications

 $<sup>^{2}</sup>$ Working distance = ∞

 $<sup>^3</sup>$ Working distance = 0.25 m to  $\infty$