

The image shows several rectangular glass plates with thin, colorful metal coatings. The coatings exhibit iridescent colors like cyan, green, and yellow. Some plates are stacked, and others are placed over circular optical components like lenses or mirrors, demonstrating the application of the coatings.

# COMPANY INTRODUCTION

**thinmetalfilms** Ltd.  
Precision Optical Coating Engineers



# ABOUT US



Thin Metal Films Ltd is a precision thin film coating company offering a manufacturing service for a range of contract optical coatings, covering wavelengths from the ultra violet to the infra red.

We have over 20 years experience in the application and development of thin film vacuum technologies for advanced products that are used in optical, laser and electro optic systems, together with everyday products such as security cameras, photocopiers and LCD televisions.

The Company produces finished coated products to exact specification as well as coating of components supplied by our customers. We cater for a large range of clients in Industry, Government and Universities worldwide.

Continuous investment in plant, test equipment and supporting services, combined with a policy of quality training for a highly specialised workforce has ensured Thin Metal Films position as one of the UK's best known companies in this field.

Our products are further enhanced by a modern, purpose built factory with excellent clean room facilities.

From small prototype orders to large batch production, work is carried out in a variety of plant installations using both electron beam and resistive evaporation techniques. We can handle surfaces ranging in size from a few millimetres up to several metres.

Computer aided design ensures that economical coating designs for complex or straightforward systems can be tailored to suit our customers' specifications including military and commercial standards for performance and durability.



# THE PROCESS



Thin film coatings are applied using high vacuum techniques where materials such as oxides, fluorides and very pure metals are heated by resistive or electron beam methods until they evaporate and deposit onto colder surfaces. Deposition is controlled very precisely to give the required effect for each application and can require from one to over 160 layers of material.



# APPLICATIONS

The film coatings are used for applications ranging from intricate laser components to large simulator mirrors and telescopes. Between these extremes in size and technology lie a whole range of applications throughout industry, science and technology. Applications include head-up displays for military aircraft, audio visual projection systems for film and TV, telescope mirror surfacing, anti-reflective coatings, opto-electronic devices for laser and optical fibre systems, infra red systems, medical equipment, periscopes, rangefinders and conductive coatings. Thin Metal Films Ltd has wide experience in all these applications.



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