

# Synchron®



## PROFESSIONAL L B C

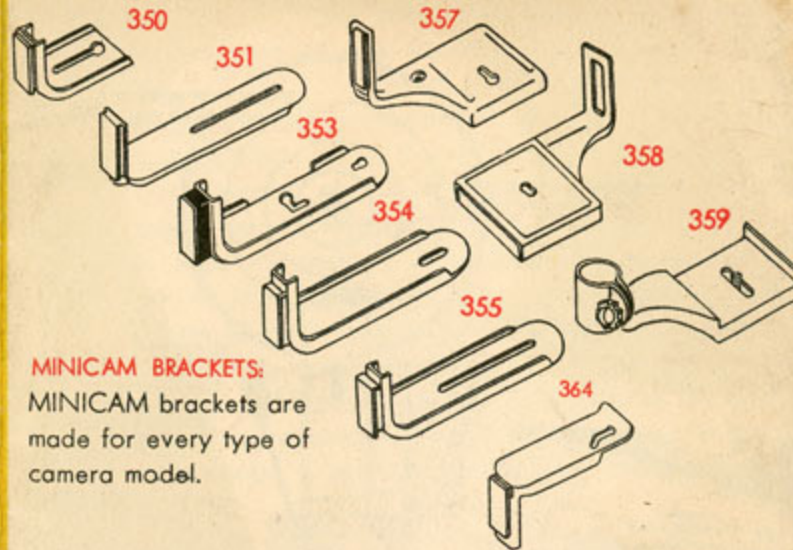
### SYNCHRON PROFESSIONAL

This precision unit has been designed to meet the highest standards of accuracy, flexibility and smooth consistent performance, under all lighting conditions. All metal-precision machined extra heavy chrome plated battery case for life long use. Reflector is scientifically designed, highly polished, extra heavy chrome plated brass, for maximum even illumination. The ideal flash unit for cameras with built-in synchronization. Reflector takes either standard (screwbase) bulb or adapter for midget (bayonet-base) bulb. Focus-Reflector furnished as optional unit.



**MINICAM**

## MINICAM FLASH ACCESSORIES



**MINICAM BRACKETS:**  
MINICAM brackets are made for every type of camera model.

- |  |   |
|--|---|
| <b>350</b> for ARGUS C-3                   | <b>358</b> for ROLLEIFLEX               |
| <b>351</b> for Universal use               | <b>359</b> Model R for Twin lens Reflex |
| <b>352</b> for Model L (casting) for LEICA | <b>360</b> for EXAKTA                   |
| <b>353</b> for NIKON (insulating)          | <b>361</b> for BOLSEY                   |
| <b>354</b> for LEICA TYPE                  | <b>362</b> for CANON IV                 |
| <b>355</b> for MAMIYA-6 & 120 cameras      | <b>363</b> for PEARL, SEMI-LEOTAX       |
| <b>356</b> for CONTAX IIa                  | <b>364</b> for CONTESSA                 |
| <b>357</b> for Twin lens Reflex type       | <b>365</b> for KONICA 35                |

### MINICAM CORDS:

MINICAM cords are made for all types of built-in shutters to give maximum of synchronization to match flash.

#### Features:

- ★ Sturdy and durable
- ★ Dependable and long life
- ★ Minimum of shorts and cord damage
- ★ Prongs made to give tight connections
- ★ Polarized, when necessary, for protection against improper or accidental connections

Catalog No.	Type of Cord	Catalog No.	Type of Cord
300	ASA bayonet	315	HEILAND Solenoid
301	Synchro-COMPUR	316	MINICAM Solenoid
302	BOLSEY	317	15 ft. Ext. Cord
303	FUJICA-SIX	319	SYNCHRONIZER
304	ARGUS C-4		for LEICA (patented)
305	MINOLTA-35-F	320	Ref. Cord, Master
306	NIKON-S	321	Reflector Cord, Jr.
307	EXAKTA	322	ELMOFLEX
308	ARGUS C-3	323	VITESSA
309	MERCURY II	324	NICCA-35
310	LEICA IIIif	325	CANON-45B
311	CONTAX IIa & IIIa	326	STEREO REALIST
312	CONTAX-S	327	NEW RORLEI
313	ASA double post	328	LEICA M-3
314	GRAPHLEX Solenoid	329	NEW CONTAX

Attachment cords are made in three different lengths.  
A — 12 inch. B — 5 feet C — 15 feet.

For price and information write to:  
**MINICAM RESEARCH CORPORATION**

# MINICAM



FOTO: T. TOMINARI  
MINICAM SYNCHRON

## SYNCHRON®

YOUR NEW MINICAM SYNCHRON FLASHGUN WITH THE MINICAM L-B-C POWER UNIT IS THE MOST MODERN AND SCIENTIFICALLY DESIGNED FLASH UNIT FOR AMATEUR OR PROFESSIONAL PHOTO FLASH.

PLEASE READ AND FOLLOW THE INSTRUCTIONS FOR THE BEST IN FLASH PICTURES.

WORLD FAMOUS for PRECISION ENGINEERING  
**MINICAM RESEARCH CORPORATION**

FLASH EQUIPMENT and ACCESSORIES  
81 NAKANECHO, MEGURO, TOKYO, JAPAN

Phone: 078 0106-8



## SYNCHRON SIDE LIGHTING UNIT

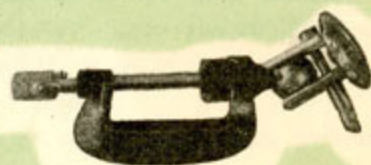
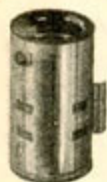
### SYNCHRON JUNIOR EXTENSION UNIT

Synchron Junior Side Lighting Unit consists of a 5 1/4 inch Universal Reflector and Junior multi-socket Standard bulb holder. The reflector has a bayonet socket for midget type flash and a fast action lever type Center-Thrust lamp ejector. The multi-socket bulb holder is threaded with 1/4 inch standard thread to permit use on tripod or with Foto-Clamp. Either a standard base bulb or midget bulb may be used in this unit to obtain the maximum of light as needed. Professional results may be obtained by using this unit with the Synchron Junior Flashgun. This unit comes equipped with 15 feet of extension cord.



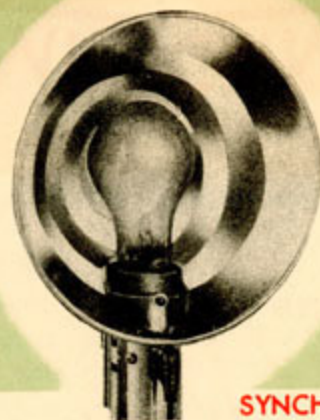
### SYNCHRON MASTER EXTENSION UNIT

Side lighting unit consists of a 7 inch reflector, multi-socket Standard bulb holder, Foto-Clamp and 15 feet of extension cord. This versatile unit is ideal for high lights and subject modeling. The Foto-Clamp permits adjustment to any angle. The Multi-socket bulb holder is threaded with 1/4 inch standard thread to permit use of tripod. The Synchron Master SIDE LIGHTING UNIT can be used with any MINICAM SYNCHRON MASTER FLASH UNIT or other similar flash equipment.



### SYNCHRON MULTI-SOCKET and FOTO-CLAMP

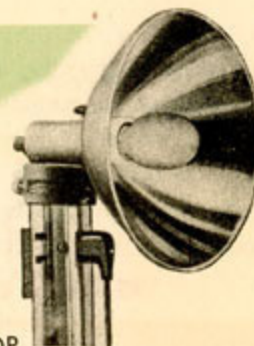
A component of the Master Synchron Side Lighting Unit, the Multi-Socket, may be purchased individually. Standard 1/4 inch threaded base permits use on tripod or with Foto-Clamp. The Multi-Socket may be used with any SYNCHRON MASTER REFLECTOR and may be used with any SYNCHRON MASTER type flash unit or similar equipment. Multi-Socket has a built-in rapid Center-Thrust lamp ejector for standard flash lamp.



### SYNCHRON REFLECTORS

#### SYNCHRON PROFESSIONAL model RSM

As a result of Scientific design and research, this fine seven inch reflector utilizes the maximum light from Standard Flash-Lamp. It throws an even, uniform, high intensity, light over the entire picture area. This reflector is a must among professional press photographers. It fits on any of the Synchron Master flash units.



### SYNCHRON FOCUS

#### model SCOOP

The parabolic reflector of this unit is scientifically designed for precision accuracy. The reflector bowl is six inches in diameter and takes the midget (bayonet-base) bulb and has a push-button Center-Thrust lamp ejector. The reflector bowl may be moved to spread light exactly to specific needs. Push reflector to rear of axis for closeup pictures or towards the front of the axis for distant shots. Intermediate positions allows light as needed. The reflector may be removed from the socket for compact packing in carrying case. It is widely used by press photographers because of its tremendous light-throwing power. SYNCHRON SCOOP reflector may be used on any of the SYNCHRON Master flash units.

# MINICAM

# Reflectors



### SYNCHRON STANDARD

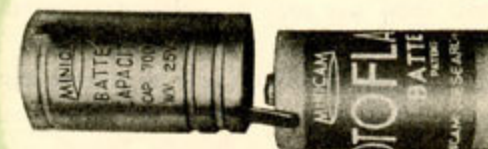
The standard reflector is used on the SYNCHRON MASTER UNIVERSAL flashgun. It has a 7 inch diameter highly-polished reflector for use of midget size lamps. Has lever-action Center-Thrust lamp ejector. Reflector may be used on any of the Synchron Master flash unit or the Master Side Lighting Unit in conjunction with reflector to battery case cord.

### SYNCHRON LAMINATED BATTERY and CAPACITOR (Power Unit)

Minicam power unit delivers extra power with dependability and service. For the Synchron Junior, Synchron Master Universal or the Synchron Professional. LBC gives positive firing and synchronization even when several extensions are used. Insures firing of lamps under conditions where ordinary batteries fail because charge comes from stored energy in the capacitor and not from the battery. Gives months of service before battery replacement is necessary.

(State size when ordering LBC Power Unit)

Synchron Universal Junior	size C
Synchron Universal Master	size D



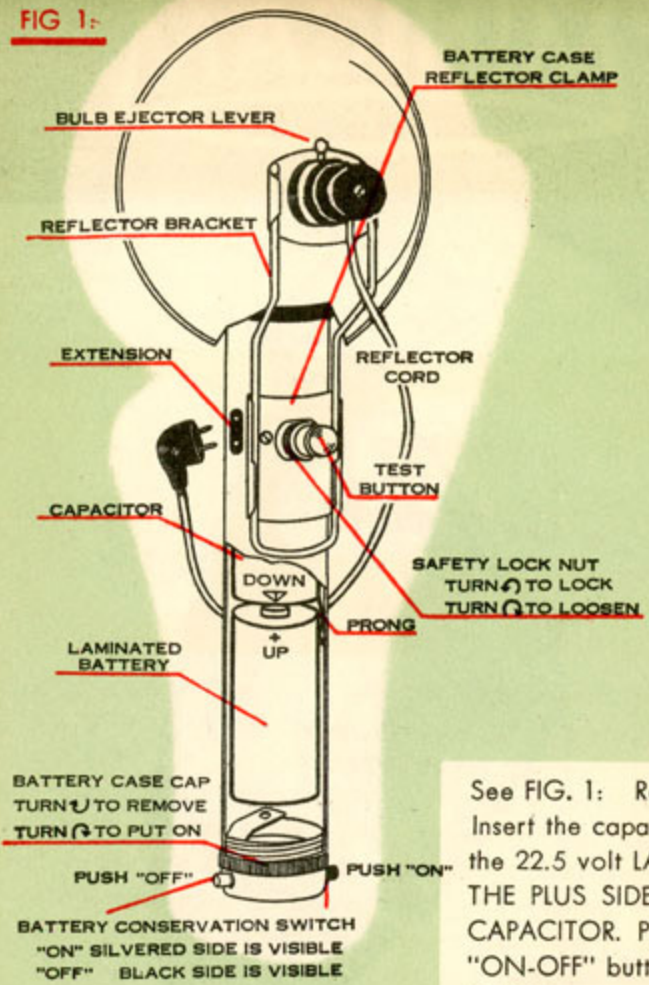
### MASTER LBC



### JUNIOR LBC

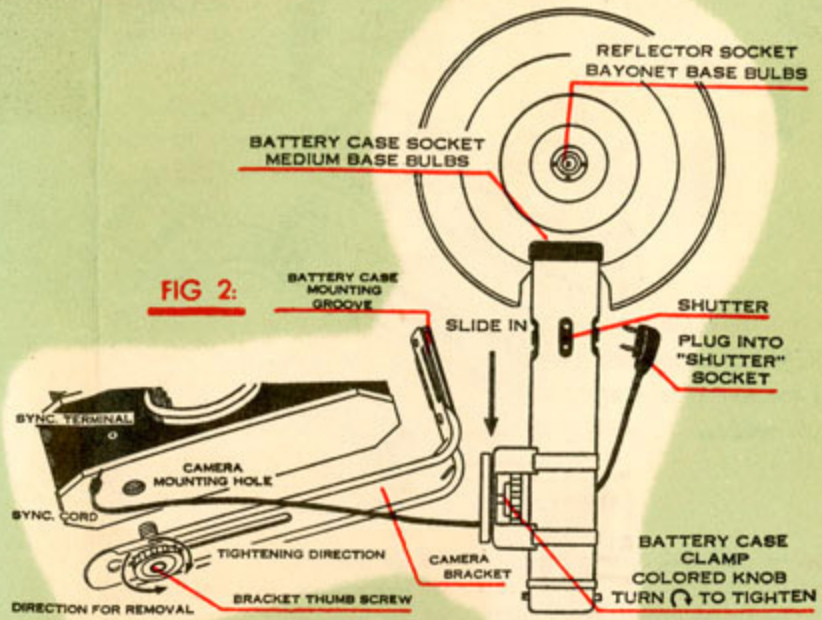


FIG 1:



INSTRUCTION FOR THE ASSEMBLY OF YOUR SYNCHRON

FIG 2:



See FIG. 1: Remove the switch cap from the battery case (turn it counter-clockwise) Insert the capacitor into the battery case with the prong pointing DOWN. Then insert the 22.5 volt LAMINATED BATTERY with its POSITIVE TERMINAL (+ Mark) pointing UP. THE PLUS SIDE OF THE BATTERY IS IN CONTACT WITH THE PRONGED END OF THE CAPACITOR. Put the base cap back on the battery case (turn it clockwise). Push the "ON-OFF" button to the ON position (the SILVERED side is visible). Your MINICAM L-B-C UNIT is now ready to provide more than 5,000 FLASHES. (NOTE: If the "old fashioned" type of 1.5 volt standard dry cells are used as the power source, insert them with the positive terminal "UP"). Slide the reflector bracket into the battery case reflector clamp. Attach one end of the reflector cord to the battery case socket marked "EXTENSION".

See FIG. 2: Set the camera on the bracket and tighten the bracket thumb screw into the mounting hole on the under-side of the camera. Slide the battery case bracket into the camera bracket and tighten the colored knob on the battery case. Insert the PRONGED END of the MINICAM BUILT-IN SYNC. CORD in the battery case socket marked "SHUTTER" and attach the other end to the synchronizer terminal on the camera.

TEST YOUR ASSEMBLY

See FIG. 3: Put the TEST LAMP (from your kit) into the reflector socket. Loosen (turn clockwise) the LOCK NUT of the TEST BUTTON. (FIG. 1) Press the TEST BUTTON. The TEST LAMP should "FLASH" immediately. If the "FLASH" occurred, then TIGHTEN the TEST BUTTON LOCK NUT (turn it counter-clockwise) TO PREVENT ACCIDENTAL "GO OFF" OF A FLASHBULB. Pull the BULB EJECTOR LEVER (See FIG. 1) to remove your test lamp. (NOTE: If the test lamp did not "FLASH", check your assembly again!!)

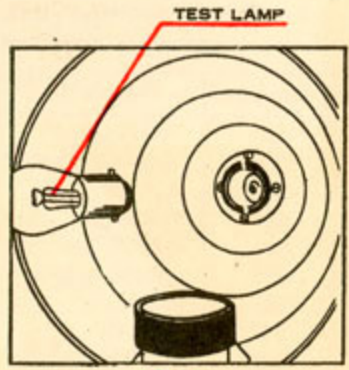


FIG 3:

FOR TAKING THE FLASH SHOT ONLY 3 EASY STEPS

1. Insert the flashbulb---  
     bayonet type into the reflector socket  
     OR  
     medium base type into the battery case socket  
     (adjust reflector for "bulb center.")
2. Set the correct camera SHUTTER SPEED and LENS STOP according to the type of bulb selected.
3. Press the SHUTTER RELEASE--  
     your FLASH-SHOT will occur SIMULTANEOUSLY with the OPENING of the SHUTTER.

TO EJECT USED BULBS:

- a. Pull BULB EJECTOR LEVER (see FIG. 1) if bayonet bulb was used.
- b. Press BATTERY CASE EJECTOR BUTTON (see FIG. 2) if medium base bulb was used. (NOTE: ON THE JUNIOR SYNCHRON, THE BULB HAS TO BE PULLED OUT BY HAND. CAUTION: LET BULB COOL BEFORE TOUCHING IT.) NOTE: When your SYNCHRON is not in use, press switch on battery case cap to the "OFF" position; this lengthens the battery life.

FOR "OFF CAMERA" USE

- ★ Substitute a MINICAM built-in EXTENSION SYNC. CORD for the MINICAM 14" CORD. (AVAILABLE IN 5 OR 15 FOOT LENGTHS.)
- ★ Remove the Synchron BATTERY CASE from the camera BRACKET.
- ★ Focus the REFLECTOR onto the subject area, and take your shot!

ADDITIONAL LIGHTING WITH MINICAM EXTENSION UNITS

- ★ Simply connect the MINICAM MASTER or JUNIOR EXTENSION CORD to the Battery case socket marked "EXTENSION."
- ★ Focus the extension reflector for the desired lighting effect. Both flashes will occur simultaneously.





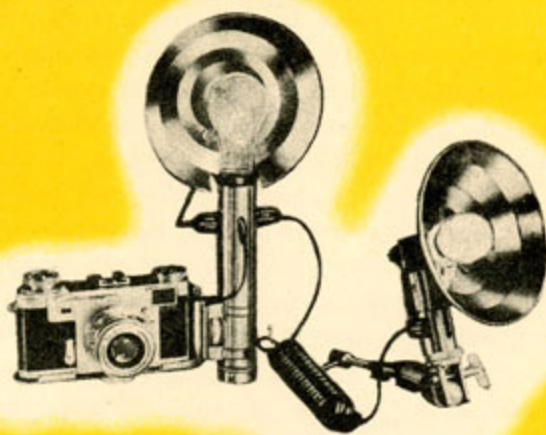
## USE MINICAM FLASH AND TAKE BETTER PICTURES

THERE'S A SYNCHRON FLASH for every camera  
Easy to attach and easy to use!!

The\* perfect flash equipment ----- for EVEN,  
DEPENDABLE & SUPERIOR ILLUMINATION

- \* MIRROR - LIKE, CHROME PLATED REFLECTOR: Designed specifically for uniform distribution of the maximum light.
- \* SOCKET: Silver plated contact points assures zero resistance for "SURE-FIRE" flash. Use either bayonet or medium base bulb.
- \* RELIABLE BULB EJECTOR: Means no "burnt" fingers and permits rapid shooting.
- \* CONNECTING CORDS: A MODEL FOR EVERY TYPE OF FLASH TERMINAL. Non-kinking, flexible wiring with zero resistance to the flash current:
- \* BATTERY CASE: Highly polished, hard chrome-plated brass for hard use. Corrosion-proof internal assembly.
- \* LABELED OUTLETS: No possibility of incorrect connections.
- \* LOKTITE TEST BUTTON: Patented test switch assures no accidental "GO-OFF" of flashbulb.
- \* BRACKETS: MINICAM patented custom fit brackets are designed to give accurate mounting and handsome appearance. Precision made, they permit instant removal of the battery case for "off-camera" flash. Rubber cushioned to protect the camera.
- \* BATTERY CONSERVER: Patented "ON-OFF" switch means longer life. More flashes per battery because the constant drain is cut off by a flick of the switch when unit is not in use.

## JUNIOR UNIVERSAL LBC



### SYNCHRON JUNIOR UNIVERSAL

Precision-made universal unit for use with standard or midget flash lamps. Provides high-quality lighting for black and white, or color action shots as well as stills. Obtain professional performances from this versatile unit. Two extension outlets for multiple-flash lighting combination using the MINICAM Junior Side Lighting Unit:

#### SPECIFICATIONS

5 1/4 inch highly-polished chrome plated reflector  
Built-in lever center-thrust lamp ejector  
2-cell Size C, chrome plated battery case  
All brass and chrome construction  
Two extension side lighting outlets  
Sturdy custom fit camera bracket  
Switch on battery case for open flash or for test lamp

#### Contents of PACKAGED UNIT:

5 1/4 inch chrome plate reflector	1 each
2-cell battery case	1 each
Cord, reflector to battery case	1 each
Rubber cushioned camera mounting bracket	1 each
Synchronizing shutter cord	1 each
Test lamp	1 each
(State type, make and model of camera when ordering)	

*Synchron*®

### SYNCHRON MASTER UNIVERSAL

The Master Universal is an extremely versatile unit for use with any type of camera. Precision-built for extra quality lighting on all types of black and white or color action shots as well as stills. This unit has the extra feature of using any type of flash lamp: standard or midget base. Quick removal of battery case from bracket is possible so that the flash may be held in different positions away from the camera for better light control. This unit has fast action lamp ejector from either the reflector or from the battery case by lever action or push-button Center-Thrust ejector.

#### SPECIFICATIONS

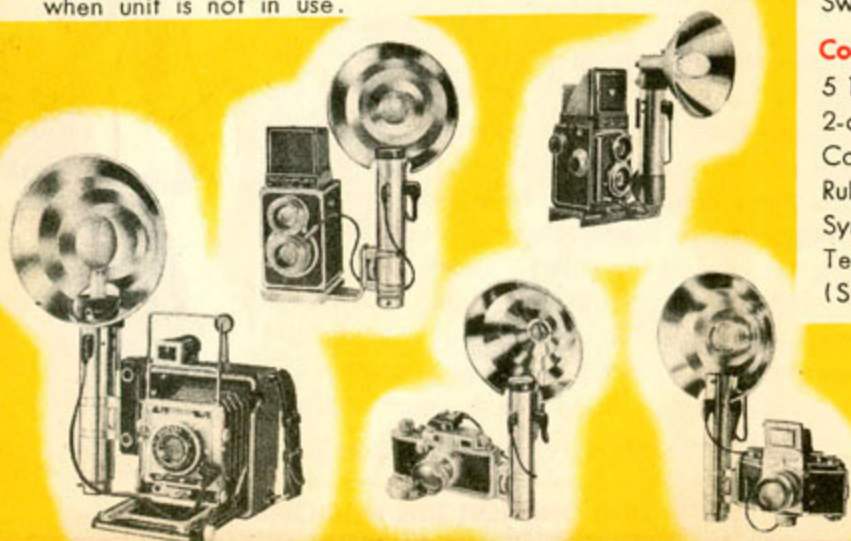
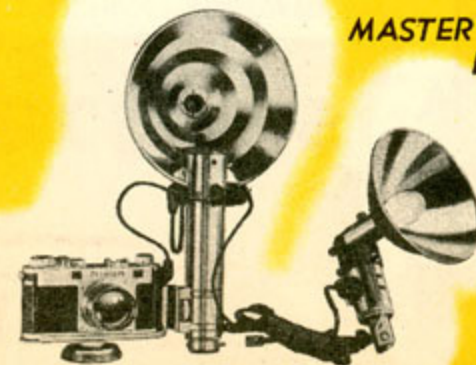
7 inch high-polish chrome plated Standard reflector w/midget lamp ejector  
2-cell Size D, satin finish battery case w/safety switch cap and Center-Thrust lamp ejector  
All brass and chrome construction  
Side Lighting Unit outlets  
Shutter outlet  
Detachable shutter cord  
Sturdy custom fit camera mounting bracket

#### Contents of PACKAGED UNIT:

7 inch chrome plated reflector (Standard)	1 each
2-cell battery case	1 each
Cord, reflector to battery case	1 each
Rubber cushioned camera mounting bracket	1 each
Synchronizing shutter cord	1 each
Test lamp	1 each

(State type, make and model of camera when ordering)

### MASTER UNIVERSAL LBC



**MINICAM**

MINICAM SYNCHRON SUNLIGHT AT NIGHT